

```
> #Please do not post homework
#Shreya Ghosh, 11-08-2021, Assignment 18
```

```
> read "/Users/shreyaghosh/Documents/M18.txt"
```

```
> Help18( )
```

*Dis2(F,x,y,pt,h,A), SIRS(s,i,beta,gamma,nu,N)* (1)

```
> #1.
C := proc(a, b, c, d, e) local n, i, l, total :
```

```
n :=  $\frac{b}{a}$  :
```

```
l :=  $\frac{n}{c}$  :
```

```
i := l·e :
```

```
total := d·i :
```

```
return total :
```

```
end:
```

```
> C( $\frac{3}{2}, \frac{3}{2}, \frac{3}{2}, 3, 3$ )
```

6 (2)

```
> #2.
W := proc(a, b, k) local rate, c :
```

```
rate :=  $\frac{\left(\frac{1}{a} - \frac{1}{b}\right)}{(k-1)}$  :
```

```
c :=  $\frac{1}{rate}$  :
```

```
return c :
```

```
end:
```

```
> W(4, 5, 2)
```

20 (3)

```
> #3.
with(LinearAlgebra)
```

```
[&x, Add, Adjoint, BackwardSubstitute, BandMatrix, Basis, BezoutMatrix, BidiagonalForm, (4)
BilinearForm, CARE, CharacteristicMatrix, CharacteristicPolynomial, Column,
ColumnDimension, ColumnOperation, ColumnSpace, CompanionMatrix,
CompressedSparseForm, ConditionNumber, ConstantMatrix, ConstantVector, Copy,
CreatePermutation, CrossProduct, DARE, DeleteColumn, DeleteRow, Determinant, Diagonal,
DiagonalMatrix, Dimension, Dimensions, DotProduct, EigenConditionNumbers, Eigenvalues,
Eigenvectors, Equal, ForwardSubstitute, FrobeniusForm, FromCompressedSparseForm,
FromSplitForm, GaussianElimination, GenerateEquations, GenerateMatrix, Generic,
GetResultDataType, GetResultShape, GivensRotationMatrix, GramSchmidt, HankelMatrix,
```

*HermiteForm, HermitianTranspose, HessenbergForm, HilbertMatrix, HouseholderMatrix, IdentityMatrix, IntersectionBasis, IsDefinite, IsOrthogonal, IsSimilar, IsUnitary, JordanBlockMatrix, JordanForm, KroneckerProduct, LA\_Main, LUdecomposition, LeastSquares, LinearSolve, LyapunovSolve, Map, Map2, MatrixAdd, MatrixExponential, MatrixFunction, MatrixInverse, MatrixMatrixMultiply, MatrixNorm, MatrixPower, MatrixScalarMultiply, MatrixVectorMultiply, MinimalPolynomial, Minor, Modular, Multiply, NoUserValue, Norm, Normalize, NullSpace, OuterProductMatrix, Permanent, Pivot, PopovForm, ProjectionMatrix, QRdecomposition, RandomMatrix, RandomVector, Rank, RationalCanonicalForm, ReducedRowEchelonForm, Row, RowDimension, RowOperation, RowSpace, ScalarMatrix, ScalarMultiply, ScalarVector, SchurForm, SingularValues, SmithForm, SplitForm, StronglyConnectedBlocks, SubMatrix, SubVector, SumBasis, SylvesterMatrix, SylvesterSolve, ToeplitzMatrix, Trace, Transpose, TridiagonalForm, UnitVector, VandermondeMatrix, VectorAdd, VectorAngle, VectorMatrixMultiply, VectorNorm, VectorScalarMultiply, ZeroMatrix, ZeroVector, Zip]*

> *Eigenvalues* ([[0, 0], [2, 0]])

$$\begin{bmatrix} 0 \\ 0 \end{bmatrix}$$

(5)

> *Eigenvalues* ([[ -2, 0], [0, 0]])

$$\begin{bmatrix} 0 \\ -2 \end{bmatrix}$$

(6)

> #4.

$$F := [x - x^2 - x \cdot y, 3 \cdot x - 2 \cdot x^2 - x \cdot y]$$

$$F := [-x^2 - xy + x, -2x^2 - xy + 3x]$$

(7)

> *pt1* := [0, 1]

$$pt1 := [0, 1]$$

(8)

> *pt2* := [0, 3]

$$pt2 := [0, 3]$$

(9)

> *Dis2*(*F*, *x*, *y*, *pt1* + [0.1, 0.1], 0.01, 10)

[[0.01, [0.1, 1.1]], [0.02, [0.0998, 1.1017]], [0.03, [0.0995989030, 1.103395302]], [0.04, [0.09939672298, 1.105085900]], [0.05, [0.09919347393, 1.106771789]], [0.06, [0.09898916981, 1.108452961]], [0.07, [0.09878382457, 1.110129411]], [0.08, [0.09857745209, 1.111801133]], [0.09, [0.09837006624, 1.113468122]], [0.10, [0.09816168087, 1.115130372]], [0.11, [0.09795230980, 1.116787877]], [0.12, [0.09774196683, 1.118440633]], [0.13, [0.09753066571, 1.120088636]], [0.14, [0.09731842016, 1.121731881]], [0.15, [0.09710524386, 1.123370365]], [0.16, [0.09689115049, 1.125004081]], [0.17, [0.09667615364, 1.126633029]], [0.18, [0.09646026691, 1.128257203]], [0.19, [0.09624350384, 1.129876599]], [0.20, [0.09602587793, 1.131491215]], [0.21, [0.09580740265, 1.133101048]], [0.22,

(10)

[0.09558809142, 1.134706094]], [0.23, [0.09536795760, 1.136306351]], [0.24, [0.09514701455, 1.137901817]], [0.25, [0.09492527555, 1.139492488]], [0.26, [0.09470275385, 1.141078364]], [0.27, [0.09447946264, 1.142659442]], [0.28, [0.09425541508, 1.144235720]], [0.29, [0.09403062427, 1.145807196]], [0.30, [0.09380510327, 1.147373870]], [0.31, [0.09357886509, 1.148935740]], [0.32, [0.09335192267, 1.150492805]], [0.33, [0.09312428894, 1.152045064]], [0.34, [0.09289597673, 1.153592516]], [0.35, [0.09266699884, 1.155135161]], [0.36, [0.09243736801, 1.156672999]], [0.37, [0.09220709694, 1.158206029]], [0.38, [0.09197619826, 1.159734251]], [0.39, [0.09174468456, 1.161257666]], [0.40, [0.09151256836, 1.162776273]], [0.41, [0.09127986211, 1.164290073]], [0.42, [0.09104657823, 1.165799067]], [0.43, [0.09081272906, 1.167303254]], [0.44, [0.09057832689, 1.168802637]], [0.45, [0.09034338396, 1.170297216]], [0.46, [0.09010791242, 1.171786993]], [0.47, [0.08987192438, 1.173271968]], [0.48, [0.08963543189, 1.174752145]], [0.49, [0.08939844694, 1.176227524]], [0.50, [0.08916098145, 1.177698106]], [0.51, [0.08892304726, 1.179163894]], [0.52, [0.08868465618, 1.180624891]], [0.53, [0.08844581994, 1.182081099]], [0.54, [0.08820655019, 1.183532520]], [0.55, [0.08796685853, 1.184979156]], [0.56, [0.08772675650, 1.186421010]], [0.57, [0.08748625555, 1.187858084]], [0.58, [0.08724536710, 1.189290382]], [0.59, [0.08700410247, 1.190717907]], [0.60, [0.08676247292, 1.192140663]], [0.61, [0.08652048966, 1.193558651]], [0.62, [0.08627816382, 1.194971877]], [0.63, [0.08603550645, 1.196380344]], [0.64, [0.08579252854, 1.197784055]], [0.65, [0.08554924102, 1.199183015]], [0.66, [0.08530565473, 1.200577227]], [0.67, [0.08506178047, 1.201966696]], [0.68, [0.08481762894, 1.203351425]], [0.69, [0.08457321078, 1.204731419]], [0.70, [0.08432853657, 1.206106682]], [0.71, [0.08408361681, 1.207477220]], [0.72, [0.08383846191, 1.208843037]], [0.73, [0.08359308224, 1.210204138]], [0.74, [0.08334748809, 1.211560527]], [0.75, [0.08310168966, 1.212912211]], [0.76, [0.08285569711, 1.214259193]], [0.77, [0.08260952049, 1.215601480]], [0.78, [0.08236316981, 1.216939076]], [0.79, [0.08211665499, 1.218271987]], [0.80, [0.08186998589, 1.219600220]], [0.81, [0.08162317227, 1.220923779]], [0.82, [0.08137622385, 1.222242670]], [0.83, [0.08112915026, 1.223556900]], [0.84, [0.08088196105, 1.224866475]], [0.85, [0.08063466571, 1.226171400]], [0.86, [0.08038727367, 1.227471682]], [0.87, [0.08013979425, 1.228767327]], [0.88, [0.07989223671, 1.230058341]], [0.89, [0.07964461027, 1.231344732]], [0.90, [0.07939692402, 1.232626505]], [0.91, [0.07914918701, 1.233903668]], [0.92, [0.07890140822, 1.235176227]], [0.93, [0.07865359654, 1.236444189]], [0.94, [0.07840576081, 1.237707561]], [0.95, [0.07815790976, 1.238966351]], [0.96, [0.07791005207, 1.240220565]], [0.97, [0.07766219634, 1.241470211]], [0.98,

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>  $Dis2(F, x, y, pt2 + [0.1, 0.1], 0.01, 10)$

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(11)

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[4.420794648 × 10<sup>-9</sup>, 3.090912030]], [8.01, [4.328359720 × 10<sup>-9</sup>, 3.090912030]], [8.02, [4.237857526 × 10<sup>-9</sup>, 3.090912030]], [8.03, [4.149247653 × 10<sup>-9</sup>, 3.090912030]], [8.04, [4.062490535 × 10<sup>-9</sup>, 3.090912030]], [8.05, [3.977547431 × 10<sup>-9</sup>, 3.090912030]], [8.06, [3.894380413 × 10<sup>-9</sup>, 3.090912030]], [8.07, [3.812952344 × 10<sup>-9</sup>, 3.090912030]], [8.08, [3.733226864 × 10<sup>-9</sup>, 3.090912030]], [8.09, [3.655168375 × 10<sup>-9</sup>, 3.090912030]], [8.10, [3.578742020 × 10<sup>-9</sup>, 3.090912030]], [8.11, [3.503913672 × 10<sup>-9</sup>, 3.090912030]], [8.12, [3.430649920 × 10<sup>-9</sup>, 3.090912030]], [8.13, [3.358918048 × 10<sup>-9</sup>, 3.090912030]], [8.14, [3.288686026 × 10<sup>-9</sup>, 3.090912030]], [8.15, [3.219922494 × 10<sup>-9</sup>, 3.090912030]], [8.16, [3.152596747 × 10<sup>-9</sup>, 3.090912030]], [8.17, [3.086678722 × 10<sup>-9</sup>, 3.090912030]], [8.18, [3.022138985 × 10<sup>-9</sup>, 3.090912030]], [8.19, [2.958948718 × 10<sup>-9</sup>, 3.090912030]], [8.20, [2.897079703 × 10<sup>-9</sup>, 3.090912030]], [8.21, [2.836504315 × 10<sup>-9</sup>, 3.090912030]], [8.22, [2.777195505 × 10<sup>-9</sup>, 3.090912030]], [8.23, [2.719126790 × 10<sup>-9</sup>, 3.090912030]], [8.24, [2.662272241 × 10<sup>-9</sup>, 3.090912030]], [8.25, [2.606606470 × 10<sup>-9</sup>, 3.090912030]], [8.26, [2.552104622 × 10<sup>-9</sup>, 3.090912030]], [8.27, [2.498742359 × 10<sup>-9</sup>, 3.090912030]], [8.28, [2.446495855 × 10<sup>-9</sup>, 3.090912030]], [8.29, [2.395341779 × 10<sup>-9</sup>, 3.090912030]], [8.30, [2.345257290 × 10<sup>-9</sup>, 3.090912030]], [8.31, [2.296220023 × 10<sup>-9</sup>, 3.090912030]], [8.32, [2.248208082 × 10<sup>-9</sup>, 3.090912030]], [8.33, [2.201200029 × 10<sup>-9</sup>, 3.090912030]], [8.34, [2.155174872 × 10<sup>-9</sup>, 3.090912030]], [8.35, [2.110112062 × 10<sup>-9</sup>, 3.090912030]], [8.36, [2.065991475 × 10<sup>-9</sup>, 3.090912030]], [8.37, [2.022793411 × 10<sup>-9</sup>, 3.090912030]], [8.38, [1.980498580 × 10<sup>-9</sup>, 3.090912030]], [8.39, [1.939088097 × 10<sup>-9</sup>, 3.090912030]], [8.40, [1.898543471 × 10<sup>-9</sup>, 3.090912030]], [8.41, [1.858846597 × 10<sup>-9</sup>, 3.090912030]], [8.42, [1.819979750 × 10<sup>-9</sup>, 3.090912030]], [8.43, [1.781925575 × 10<sup>-9</sup>, 3.090912030]], [8.44, [1.744667079 × 10<sup>-9</sup>, 3.090912030]], [8.45, [1.708187625 × 10<sup>-9</sup>, 3.090912030]], [8.46, [1.672470924 × 10<sup>-9</sup>, 3.090912030]], [8.47, [1.637501028 × 10<sup>-9</sup>, 3.090912030]], [8.48, [1.603262322 × 10<sup>-9</sup>, 3.090912030]], [8.49, [1.569739517 × 10<sup>-9</sup>, 3.090912030]], [8.50, [1.536917644 × 10<sup>-9</sup>, 3.090912030]], [8.51, [1.504782048 × 10<sup>-9</sup>, 3.090912030]], [8.52, [1.473318379 × 10<sup>-9</sup>, 3.090912030]], [8.53, [1.442512588 × 10<sup>-9</sup>, 3.090912030]], [8.54, [1.412350919 × 10<sup>-9</sup>, 3.090912030]], [8.55, [1.382819904 × 10<sup>-9</sup>, 3.090912030]], [8.56, [1.353906356 × 10<sup>-9</sup>, 3.090912030]], [8.57, [1.325597366 × 10<sup>-9</sup>, 3.090912030]], [8.58, [1.297880292 × 10<sup>-9</sup>, 3.090912030]], [8.59, [1.270742757 × 10<sup>-9</sup>, 3.090912030]], [8.60, [1.244172644 × 10<sup>-9</sup>, 3.090912030]], [8.61, [1.218158088 × 10<sup>-9</sup>, 3.090912030]], [8.62, [1.192687474 × 10<sup>-9</sup>, 3.090912030]], [8.63, [1.167749428 × 10<sup>-9</sup>, 3.090912030]], [8.64, [1.143332814 × 10<sup>-9</sup>, 3.090912030]], [8.65, [1.119426731 × 10<sup>-9</sup>, 3.090912030]], [8.66, [1.096020502 × 10<sup>-9</sup>, 3.090912030]], [8.67, [1.073103677 × 10<sup>-9</sup>, 3.090912030]], [8.68, [1.050666023 × 10<sup>-9</sup>, 3.090912030]], [8.69, [1.028697520 × 10<sup>-9</sup>, 3.090912030]], [8.70, [1.007188360 × 10<sup>-9</sup>, 3.090912030]], [8.71, [9.861289378 × 10<sup>-10</sup>, 3.090912030]],

[8.72, [9.655098492 × 10<sup>-10</sup>, 3.090912030]], [8.73, [9.453218876 × 10<sup>-10</sup>, 3.090912030]], [8.74, [9.255560386 × 10<sup>-10</sup>, 3.090912030]], [8.75, [9.062034761 × 10<sup>-10</sup>, 3.090912030]], [8.76, [8.872555586 × 10<sup>-10</sup>, 3.090912030]], [8.77, [8.687038254 × 10<sup>-10</sup>, 3.090912030]], [8.78, [8.505399927 × 10<sup>-10</sup>, 3.090912030]], [8.79, [8.327559496 × 10<sup>-10</sup>, 3.090912030]], [8.80, [8.153437553 × 10<sup>-10</sup>, 3.090912030]], [8.81, [7.982956347 × 10<sup>-10</sup>, 3.090912030]], [8.82, [7.816039752 × 10<sup>-10</sup>, 3.090912030]], [8.83, [7.652613237 × 10<sup>-10</sup>, 3.090912030]], [8.84, [7.492603826 × 10<sup>-10</sup>, 3.090912030]], [8.85, [7.335940071 × 10<sup>-10</sup>, 3.090912030]], [8.86, [7.182552018 × 10<sup>-10</sup>, 3.090912030]], [8.87, [7.032371174 × 10<sup>-10</sup>, 3.090912030]], [8.88, [6.885330479 × 10<sup>-10</sup>, 3.090912030]], [8.89, [6.741364276 × 10<sup>-10</sup>, 3.090912030]], [8.90, [6.600408280 × 10<sup>-10</sup>, 3.090912030]], [8.91, [6.462399549 × 10<sup>-10</sup>, 3.090912030]], [8.92, [6.327276459 × 10<sup>-10</sup>, 3.090912030]], [8.93, [6.194978675 × 10<sup>-10</sup>, 3.090912030]], [8.94, [6.065447121 × 10<sup>-10</sup>, 3.090912030]], [8.95, [5.938623957 × 10<sup>-10</sup>, 3.090912030]], [8.96, [5.814452555 × 10<sup>-10</sup>, 3.090912030]], [8.97, [5.692877468 × 10<sup>-10</sup>, 3.090912030]], [8.98, [5.573844408 × 10<sup>-10</sup>, 3.090912030]], [8.99, [5.457300225 × 10<sup>-10</sup>, 3.090912030]], [9.00, [5.343192878 × 10<sup>-10</sup>, 3.090912030]], [9.01, [5.231471416 × 10<sup>-10</sup>, 3.090912030]], [9.02, [5.122085951 × 10<sup>-10</sup>, 3.090912030]], [9.03, [5.014987640 × 10<sup>-10</sup>, 3.090912030]], [9.04, [4.910128660 × 10<sup>-10</sup>, 3.090912030]], [9.05, [4.807462190 × 10<sup>-10</sup>, 3.090912030]], [9.06, [4.706942385 × 10<sup>-10</sup>, 3.090912030]], [9.07, [4.608524361 × 10<sup>-10</sup>, 3.090912030]], [9.08, [4.512164171 × 10<sup>-10</sup>, 3.090912030]], [9.09, [4.417818788 × 10<sup>-10</sup>, 3.090912030]], [9.10, [4.325446084 × 10<sup>-10</sup>, 3.090912030]], [9.11, [4.235004812 × 10<sup>-10</sup>, 3.090912030]], [9.12, [4.146454587 × 10<sup>-10</sup>, 3.090912030]], [9.13, [4.059755869 × 10<sup>-10</sup>, 3.090912030]], [9.14, [3.974869946 × 10<sup>-10</sup>, 3.090912030]], [9.15, [3.891758912 × 10<sup>-10</sup>, 3.090912030]], [9.16, [3.810385657 × 10<sup>-10</sup>, 3.090912030]], [9.17, [3.730713845 × 10<sup>-10</sup>, 3.090912030]], [9.18, [3.652707900 × 10<sup>-10</sup>, 3.090912030]], [9.19, [3.576332991 × 10<sup>-10</sup>, 3.090912030]], [9.20, [3.501555014 × 10<sup>-10</sup>, 3.090912030]], [9.21, [3.428340579 × 10<sup>-10</sup>, 3.090912030]], [9.22, [3.356656994 × 10<sup>-10</sup>, 3.090912030]], [9.23, [3.286472249 × 10<sup>-10</sup>, 3.090912030]], [9.24, [3.217755005 × 10<sup>-10</sup>, 3.090912030]], [9.25, [3.150474578 × 10<sup>-10</sup>, 3.090912030]], [9.26, [3.084600926 × 10<sup>-10</sup>, 3.090912030]], [9.27, [3.020104634 × 10<sup>-10</sup>, 3.090912030]], [9.28, [2.956956903 × 10<sup>-10</sup>, 3.090912030]], [9.29, [2.895129535 × 10<sup>-10</sup>, 3.090912030]], [9.30, [2.834594923 × 10<sup>-10</sup>, 3.090912030]], [9.31, [2.775326037 × 10<sup>-10</sup>, 3.090912030]], [9.32, [2.717296411 × 10<sup>-10</sup>, 3.090912030]], [9.33, [2.660480133 × 10<sup>-10</sup>, 3.090912030]], [9.34, [2.604851834 × 10<sup>-10</sup>, 3.090912030]],

[9.35, [2.550386673 × 10<sup>-10</sup>, 3.090912030]], [9.36, [2.497060332 × 10<sup>-10</sup>, 3.090912030]], [9.37, [2.444848997 × 10<sup>-10</sup>, 3.090912030]], [9.38, [2.393729355 × 10<sup>-10</sup>, 3.090912030]], [9.39, [2.343678580 × 10<sup>-10</sup>, 3.090912030]], [9.40, [2.294674323 × 10<sup>-10</sup>, 3.090912030]], [9.41, [2.246694701 × 10<sup>-10</sup>, 3.090912030]], [9.42, [2.199718291 × 10<sup>-10</sup>, 3.090912030]], [9.43, [2.153724117 × 10<sup>-10</sup>, 3.090912030]], [9.44, [2.108691640 × 10<sup>-10</sup>, 3.090912030]], [9.45, [2.064600752 × 10<sup>-10</sup>, 3.090912030]], [9.46, [2.021431767 × 10<sup>-10</sup>, 3.090912030]], [9.47, [1.979165407 × 10<sup>-10</sup>, 3.090912030]], [9.48, [1.937782799 × 10<sup>-10</sup>, 3.090912030]], [9.49, [1.897265465 × 10<sup>-10</sup>, 3.090912030]], [9.50, [1.857595314 × 10<sup>-10</sup>, 3.090912030]], [9.51, [1.818754630 × 10<sup>-10</sup>, 3.090912030]], [9.52, [1.780726070 × 10<sup>-10</sup>, 3.090912030]], [9.53, [1.743492655 × 10<sup>-10</sup>, 3.090912030]], [9.54, [1.707037758 × 10<sup>-10</sup>, 3.090912030]], [9.55, [1.671345101 × 10<sup>-10</sup>, 3.090912030]], [9.56, [1.636398745 × 10<sup>-10</sup>, 3.090912030]], [9.57, [1.602183086 × 10<sup>-10</sup>, 3.090912030]], [9.58, [1.568682847 × 10<sup>-10</sup>, 3.090912030]], [9.59, [1.535883068 × 10<sup>-10</sup>, 3.090912030]], [9.60, [1.503769104 × 10<sup>-10</sup>, 3.090912030]], [9.61, [1.472326615 × 10<sup>-10</sup>, 3.090912030]], [9.62, [1.441541561 × 10<sup>-10</sup>, 3.090912030]], [9.63, [1.411400195 × 10<sup>-10</sup>, 3.090912030]], [9.64, [1.381889059 × 10<sup>-10</sup>, 3.090912030]], [9.65, [1.352994975 × 10<sup>-10</sup>, 3.090912030]], [9.66, [1.324705041 × 10<sup>-10</sup>, 3.090912030]], [9.67, [1.297006624 × 10<sup>-10</sup>, 3.090912030]], [9.68, [1.269887356 × 10<sup>-10</sup>, 3.090912030]], [9.69, [1.243335129 × 10<sup>-10</sup>, 3.090912030]], [9.70, [1.217338085 × 10<sup>-10</sup>, 3.090912030]], [9.71, [1.191884617 × 10<sup>-10</sup>, 3.090912030]], [9.72, [1.166963358 × 10<sup>-10</sup>, 3.090912030]], [9.73, [1.142563181 × 10<sup>-10</sup>, 3.090912030]], [9.74, [1.118673190 × 10<sup>-10</sup>, 3.090912030]], [9.75, [1.095282718 × 10<sup>-10</sup>, 3.090912030]], [9.76, [1.072381320 × 10<sup>-10</sup>, 3.090912030]], [9.77, [1.049958770 × 10<sup>-10</sup>, 3.090912030]], [9.78, [1.028005056 × 10<sup>-10</sup>, 3.090912030]], [9.79, [1.006510375 × 10<sup>-10</sup>, 3.090912030]], [9.80, [9.854651287 × 10<sup>-11</sup>, 3.090912030]], [9.81, [9.648599198 × 10<sup>-11</sup>, 3.090912030]], [9.82, [9.446855477 × 10<sup>-11</sup>, 3.090912030]], [9.83, [9.249330040 × 10<sup>-11</sup>, 3.090912030]], [9.84, [9.055934685 × 10<sup>-11</sup>, 3.090912030]], [9.85, [8.866583057 × 10<sup>-11</sup>, 3.090912030]], [9.86, [8.681190606 × 10<sup>-11</sup>, 3.090912030]], [9.87, [8.499674547 × 10<sup>-11</sup>, 3.090912030]], [9.88, [8.321953829 × 10<sup>-11</sup>, 3.090912030]], [9.89, [8.147949095 × 10<sup>-11</sup>, 3.090912030]], [9.90, [7.977582647 × 10<sup>-11</sup>, 3.090912030]], [9.91, [7.810778411 × 10<sup>-11</sup>, 3.090912030]], [9.92, [7.647461906 × 10<sup>-11</sup>, 3.090912030]], [9.93, [7.487560205 × 10<sup>-11</sup>, 3.090912030]], [9.94, [7.331001908 × 10<sup>-11</sup>, 3.090912030]], [9.95, [7.177717107 × 10<sup>-11</sup>, 3.090912030]], [9.96, [7.027637356 × 10<sup>-11</sup>, 3.090912030]], [9.97, [6.880695642 × 10<sup>-11</sup>, 3.090912030]],

[9.98, [6.736826349 × 10<sup>-11</sup>, 3.090912030]], [9.99, [6.595965236 × 10<sup>-11</sup>, 3.090912030]], [10.00, [6.458049405 × 10<sup>-11</sup>, 3.090912030]], [10.01, [6.323017273 × 10<sup>-11</sup>, 3.090912030]]]

> #5.

*Dis2(SIRS(20, 30, 0.01, 0, 1, 50), s, i, [20, 30], 0.01, 10)*

[ [0.01, [20, 30]], [0.02, [19.9400, 29.7600]], [0.03, [19.8800, 29.5200]], [0.04, [19.8200, 29.2800]], [0.05, [19.7600, 29.0400]], [0.06, [19.7000, 28.8000]], [0.07, [19.6400, 28.5600]], [0.08, [19.5800, 28.3200]], [0.09, [19.5200, 28.0800]], [0.10, [19.4600, 27.8400]], [0.11, [19.4000, 27.6000]], [0.12, [19.3400, 27.3600]], [0.13, [19.2800, 27.1200]], [0.14, [19.2200, 26.8800]], [0.15, [19.1600, 26.6400]], [0.16, [19.1000, 26.4000]], [0.17, [19.0400, 26.1600]], [0.18, [18.9800, 25.9200]], [0.19, [18.9200, 25.6800]], [0.20, [18.8600, 25.4400]], [0.21, [18.8000, 25.2000]], [0.22, [18.7400, 24.9600]], [0.23, [18.6800, 24.7200]], [0.24, [18.6200, 24.4800]], [0.25, [18.5600, 24.2400]], [0.26, [18.5000, 24.0000]], [0.27, [18.4400, 23.7600]], [0.28, [18.3800, 23.5200]], [0.29, [18.3200, 23.2800]], [0.30, [18.2600, 23.0400]], [0.31, [18.2000, 22.8000]], [0.32, [18.1400, 22.5600]], [0.33, [18.0800, 22.3200]], [0.34, [18.0200, 22.0800]], [0.35, [17.9600, 21.8400]], [0.36, [17.9000, 21.6000]], [0.37, [17.8400, 21.3600]], [0.38, [17.7800, 21.1200]], [0.39, [17.7200, 20.8800]], [0.40, [17.6600, 20.6400]], [0.41, [17.6000, 20.4000]], [0.42, [17.5400, 20.1600]], [0.43, [17.4800, 19.9200]], [0.44, [17.4200, 19.6800]], [0.45, [17.3600, 19.4400]], [0.46, [17.3000, 19.2000]], [0.47, [17.2400, 18.9600]], [0.48, [17.1800, 18.7200]], [0.49, [17.1200, 18.4800]], [0.50, [17.0600, 18.2400]], [0.51, [17.0000, 18.0000]], [0.52, [16.9400, 17.7600]], [0.53, [16.8800, 17.5200]], [0.54, [16.8200, 17.2800]], [0.55, [16.7600, 17.0400]], [0.56, [16.7000, 16.8000]], [0.57, [16.6400, 16.5600]], [0.58, [16.5800, 16.3200]], [0.59, [16.5200, 16.0800]], [0.60, [16.4600, 15.8400]], [0.61, [16.4000, 15.6000]], [0.62, [16.3400, 15.3600]], [0.63, [16.2800, 15.1200]], [0.64, [16.2200, 14.8800]], [0.65, [16.1600, 14.6400]], [0.66, [16.1000, 14.4000]], [0.67, [16.0400, 14.1600]], [0.68, [15.9800, 13.9200]], [0.69, [15.9200, 13.6800]], [0.70, [15.8600, 13.4400]], [0.71, [15.8000, 13.2000]], [0.72, [15.7400, 12.9600]], [0.73, [15.6800, 12.7200]], [0.74, [15.6200, 12.4800]], [0.75, [15.5600, 12.2400]], [0.76, [15.5000, 12.0000]], [0.77, [15.4400, 11.7600]], [0.78, [15.3800, 11.5200]], [0.79, [15.3200, 11.2800]], [0.80, [15.2600, 11.0400]], [0.81, [15.2000, 10.8000]], [0.82, [15.1400, 10.5600]], [0.83, [15.0800, 10.3200]], [0.84, [15.0200, 10.0800]], [0.85, [14.9600, 9.8400]], [0.86, [14.9000, 9.6000]], [0.87, [14.8400, 9.3600]], [0.88, [14.7800, 9.1200]], [0.89, [14.7200, 8.8800]], [0.90, [14.6600, 8.6400]], [0.91, [14.6000, 8.4000]], [0.92, [14.5400, 8.1600]], [0.93, [14.4800, 7.9200]], [0.94, [14.4200, 7.6800]], [0.95, [14.3600, 7.4400]], [0.96, [14.3000, 7.2000]], [0.97, [14.2400, 6.9600]], [0.98, [14.1800, 6.7200]], [0.99, [14.1200, 6.4800]], [1.00, [14.0600, 6.2400]], [1.01, [14.0000, 6.0000]], [1.02,

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[2.82, [3.1400, -37.4400]], [2.83, [3.0800, -37.6800]], [2.84, [3.0200, -37.9200]],  
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$[-34.9000, -189.6000]$ , [9.17,  $[-34.9600, -189.8400]$ ], [9.18,  $[-35.0200, -190.0800]$ ], [9.19,  $[-35.0800, -190.3200]$ ], [9.20,  $[-35.1400, -190.5600]$ ], [9.21,  $[-35.2000, -190.8000]$ ], [9.22,  $[-35.2600, -191.0400]$ ], [9.23,  $[-35.3200, -191.2800]$ ], [9.24,  $[-35.3800, -191.5200]$ ], [9.25,  $[-35.4400, -191.7600]$ ], [9.26,  $[-35.5000, -192.0000]$ ], [9.27,  $[-35.5600, -192.2400]$ ], [9.28,  $[-35.6200, -192.4800]$ ], [9.29,  $[-35.6800, -192.7200]$ ], [9.30,  $[-35.7400, -192.9600]$ ], [9.31,  $[-35.8000, -193.2000]$ ], [9.32,  $[-35.8600, -193.4400]$ ], [9.33,  $[-35.9200, -193.6800]$ ], [9.34,  $[-35.9800, -193.9200]$ ], [9.35,  $[-36.0400, -194.1600]$ ], [9.36,  $[-36.1000, -194.4000]$ ], [9.37,  $[-36.1600, -194.6400]$ ], [9.38,  $[-36.2200, -194.8800]$ ], [9.39,  $[-36.2800, -195.1200]$ ], [9.40,  $[-36.3400, -195.3600]$ ], [9.41,  $[-36.4000, -195.6000]$ ], [9.42,  $[-36.4600, -195.8400]$ ], [9.43,  $[-36.5200, -196.0800]$ ], [9.44,  $[-36.5800, -196.3200]$ ], [9.45,  $[-36.6400, -196.5600]$ ], [9.46,  $[-36.7000, -196.8000]$ ], [9.47,  $[-36.7600, -197.0400]$ ], [9.48,  $[-36.8200, -197.2800]$ ], [9.49,  $[-36.8800, -197.5200]$ ], [9.50,  $[-36.9400, -197.7600]$ ], [9.51,  $[-37.0000, -198.0000]$ ], [9.52,  $[-37.0600, -198.2400]$ ], [9.53,  $[-37.1200, -198.4800]$ ], [9.54,  $[-37.1800, -198.7200]$ ], [9.55,  $[-37.2400, -198.9600]$ ], [9.56,  $[-37.3000, -199.2000]$ ], [9.57,  $[-37.3600, -199.4400]$ ], [9.58,  $[-37.4200, -199.6800]$ ], [9.59,  $[-37.4800, -199.9200]$ ], [9.60,  $[-37.5400, -200.1600]$ ], [9.61,  $[-37.6000, -200.4000]$ ], [9.62,  $[-37.6600, -200.6400]$ ], [9.63,  $[-37.7200, -200.8800]$ ], [9.64,  $[-37.7800, -201.1200]$ ], [9.65,  $[-37.8400, -201.3600]$ ], [9.66,  $[-37.9000, -201.6000]$ ], [9.67,  $[-37.9600, -201.8400]$ ], [9.68,  $[-38.0200, -202.0800]$ ], [9.69,  $[-38.0800, -202.3200]$ ], [9.70,  $[-38.1400, -202.5600]$ ], [9.71,  $[-38.2000, -202.8000]$ ], [9.72,  $[-38.2600, -203.0400]$ ], [9.73,  $[-38.3200, -203.2800]$ ], [9.74,  $[-38.3800, -203.5200]$ ], [9.75,  $[-38.4400, -203.7600]$ ], [9.76,  $[-38.5000, -204.0000]$ ], [9.77,  $[-38.5600, -204.2400]$ ], [9.78,  $[-38.6200, -204.4800]$ ], [9.79,  $[-38.6800, -204.7200]$ ], [9.80,  $[-38.7400, -204.9600]$ ], [9.81,  $[-38.8000, -205.2000]$ ], [9.82,  $[-38.8600, -205.4400]$ ], [9.83,  $[-38.9200, -205.6800]$ ], [9.84,  $[-38.9800, -205.9200]$ ], [9.85,  $[-39.0400, -206.1600]$ ], [9.86,  $[-39.1000, -206.4000]$ ], [9.87,  $[-39.1600, -206.6400]$ ], [9.88,  $[-39.2200, -206.8800]$ ], [9.89,  $[-39.2800, -207.1200]$ ], [9.90,  $[-39.3400, -207.3600]$ ], [9.91,  $[-39.4000, -207.6000]$ ], [9.92,  $[-39.4600, -207.8400]$ ], [9.93,  $[-39.5200, -208.0800]$ ], [9.94,  $[-39.5800, -208.3200]$ ], [9.95,  $[-39.6400, -208.5600]$ ], [9.96,  $[-39.7000, -208.8000]$ ], [9.97,  $[-39.7600, -209.0400]$ ], [9.98,  $[-39.8200, -209.2800]$ ], [9.99,  $[-39.8800, -209.5200]$ ], [10.00,  $[-39.9400, -209.7600]$ ], [10.01,  $[-40.0000, -210.0000]$ ]

>  $Dis2(SIRS(50, 30, 0.01, 0, 1, 80), s, i, [50, 30], 0.01, 10)$

$[[0.01, [50, 30]]$ , [0.02, [49.8500, 29.8500]], [0.03, [49.7000, 29.7000]], [0.04, [49.5500, 29.5500]], [0.05, [49.4000, 29.4000]], [0.06, [49.2500, 29.2500]], [0.07, [49.1000,

(13)

29.1000]], [0.08, [48.9500, 28.9500]], [0.09, [48.8000, 28.8000]], [0.10, [48.6500, 28.6500]], [0.11, [48.5000, 28.5000]], [0.12, [48.3500, 28.3500]], [0.13, [48.2000, 28.2000]], [0.14, [48.0500, 28.0500]], [0.15, [47.9000, 27.9000]], [0.16, [47.7500, 27.7500]], [0.17, [47.6000, 27.6000]], [0.18, [47.4500, 27.4500]], [0.19, [47.3000, 27.3000]], [0.20, [47.1500, 27.1500]], [0.21, [47.0000, 27.0000]], [0.22, [46.8500, 26.8500]], [0.23, [46.7000, 26.7000]], [0.24, [46.5500, 26.5500]], [0.25, [46.4000, 26.4000]], [0.26, [46.2500, 26.2500]], [0.27, [46.1000, 26.1000]], [0.28, [45.9500, 25.9500]], [0.29, [45.8000, 25.8000]], [0.30, [45.6500, 25.6500]], [0.31, [45.5000, 25.5000]], [0.32, [45.3500, 25.3500]], [0.33, [45.2000, 25.2000]], [0.34, [45.0500, 25.0500]], [0.35, [44.9000, 24.9000]], [0.36, [44.7500, 24.7500]], [0.37, [44.6000, 24.6000]], [0.38, [44.4500, 24.4500]], [0.39, [44.3000, 24.3000]], [0.40, [44.1500, 24.1500]], [0.41, [44.0000, 24.0000]], [0.42, [43.8500, 23.8500]], [0.43, [43.7000, 23.7000]], [0.44, [43.5500, 23.5500]], [0.45, [43.4000, 23.4000]], [0.46, [43.2500, 23.2500]], [0.47, [43.1000, 23.1000]], [0.48, [42.9500, 22.9500]], [0.49, [42.8000, 22.8000]], [0.50, [42.6500, 22.6500]], [0.51, [42.5000, 22.5000]], [0.52, [42.3500, 22.3500]], [0.53, [42.2000, 22.2000]], [0.54, [42.0500, 22.0500]], [0.55, [41.9000, 21.9000]], [0.56, [41.7500, 21.7500]], [0.57, [41.6000, 21.6000]], [0.58, [41.4500, 21.4500]], [0.59, [41.3000, 21.3000]], [0.60, [41.1500, 21.1500]], [0.61, [41.0000, 21.0000]], [0.62, [40.8500, 20.8500]], [0.63, [40.7000, 20.7000]], [0.64, [40.5500, 20.5500]], [0.65, [40.4000, 20.4000]], [0.66, [40.2500, 20.2500]], [0.67, [40.1000, 20.1000]], [0.68, [39.9500, 19.9500]], [0.69, [39.8000, 19.8000]], [0.70, [39.6500, 19.6500]], [0.71, [39.5000, 19.5000]], [0.72, [39.3500, 19.3500]], [0.73, [39.2000, 19.2000]], [0.74, [39.0500, 19.0500]], [0.75, [38.9000, 18.9000]], [0.76, [38.7500, 18.7500]], [0.77, [38.6000, 18.6000]], [0.78, [38.4500, 18.4500]], [0.79, [38.3000, 18.3000]], [0.80, [38.1500, 18.1500]], [0.81, [38.0000, 18.0000]], [0.82, [37.8500, 17.8500]], [0.83, [37.7000, 17.7000]], [0.84, [37.5500, 17.5500]], [0.85, [37.4000, 17.4000]], [0.86, [37.2500, 17.2500]], [0.87, [37.1000, 17.1000]], [0.88, [36.9500, 16.9500]], [0.89, [36.8000, 16.8000]], [0.90, [36.6500, 16.6500]], [0.91, [36.5000, 16.5000]], [0.92, [36.3500, 16.3500]], [0.93, [36.2000, 16.2000]], [0.94, [36.0500, 16.0500]], [0.95, [35.9000, 15.9000]], [0.96, [35.7500, 15.7500]], [0.97, [35.6000, 15.6000]], [0.98, [35.4500, 15.4500]], [0.99, [35.3000, 15.3000]], [1.00, [35.1500, 15.1500]], [1.01, [35.0000, 15.0000]], [1.02, [34.8500, 14.8500]], [1.03, [34.7000, 14.7000]], [1.04, [34.5500, 14.5500]], [1.05, [34.4000, 14.4000]], [1.06, [34.2500, 14.2500]], [1.07, [34.1000, 14.1000]], [1.08, [33.9500, 13.9500]], [1.09, [33.8000, 13.8000]], [1.10, [33.6500, 13.6500]], [1.11, [33.5000, 13.5000]], [1.12, [33.3500, 13.3500]], [1.13, [33.2000, 13.2000]], [1.14, [33.0500, 13.0500]], [1.15, [32.9000, 12.9000]], [1.16, [32.7500, 12.7500]], [1.17, [32.6000, 12.6000]], [1.18, [32.4500, 12.4500]], [1.19, [32.3000, 12.3000]], [1.20, [32.1500, 12.1500]], [1.21, [32.0000,



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[6.58, [−48.5500, −68.5500]], [6.59, [−48.7000, −68.7000]], [6.60, [−48.8500, −68.8500]], [6.61, [−49.0000, −69.0000]], [6.62, [−49.1500, −69.1500]], [6.63, [−49.3000, −69.3000]], [6.64, [−49.4500, −69.4500]], [6.65, [−49.6000, −69.6000]], [6.66, [−49.7500, −69.7500]], [6.67, [−49.9000, −69.9000]], [6.68, [−50.0500, −70.0500]], [6.69, [−50.2000, −70.2000]], [6.70, [−50.3500, −70.3500]], [6.71, [−50.5000, −70.5000]], [6.72, [−50.6500, −70.6500]], [6.73, [−50.8000, −70.8000]], [6.74, [−50.9500, −70.9500]], [6.75, [−51.1000, −71.1000]], [6.76, [−51.2500, −71.2500]], [6.77, [−51.4000, −71.4000]], [6.78, [−51.5500, −71.5500]], [6.79, [−51.7000, −71.7000]], [6.80, [−51.8500, −71.8500]], [6.81, [−52.0000, −72.0000]], [6.82, [−52.1500, −72.1500]], [6.83, [−52.3000, −72.3000]], [6.84, [−52.4500, −72.4500]], [6.85, [−52.6000, −72.6000]], [6.86, [−52.7500, −72.7500]], [6.87, [−52.9000, −72.9000]], [6.88, [−53.0500, −73.0500]], [6.89, [−53.2000, −73.2000]], [6.90, [−53.3500, −73.3500]], [6.91, [−53.5000, −73.5000]], [6.92, [−53.6500, −73.6500]], [6.93, [−53.8000, −73.8000]], [6.94, [−53.9500, −73.9500]], [6.95, [−54.1000, −74.1000]], [6.96, [−54.2500, −74.2500]], [6.97, [−54.4000, −74.4000]], [6.98, [−54.5500, −74.5500]], [6.99, [−54.7000, −74.7000]], [7.00, [−54.8500, −74.8500]], [7.01, [−55.0000, −75.0000]], [7.02, [−55.1500, −75.1500]], [7.03, [−55.3000, −75.3000]], [7.04, [−55.4500, −75.4500]], [7.05, [−55.6000, −75.6000]], [7.06, [−55.7500, −75.7500]], [7.07, [−55.9000, −75.9000]], [7.08, [−56.0500, −76.0500]], [7.09, [−56.2000, −76.2000]], [7.10, [−56.3500, −76.3500]], [7.11, [−56.5000, −76.5000]], [7.12, [−56.6500, −76.6500]], [7.13, [−56.8000, −76.8000]], [7.14, [−56.9500, −76.9500]], [7.15, [−57.1000, −77.1000]], [7.16, [−57.2500, −77.2500]], [7.17, [−57.4000, −77.4000]], [7.18, [−57.5500, −77.5500]], [7.19, [−57.7000, −77.7000]], [7.20, [−57.8500, −77.8500]], [7.21, [−58.0000, −78.0000]], [7.22, [−58.1500, −78.1500]], [7.23, [−58.3000, −78.3000]], [7.24, [−58.4500, −78.4500]], [7.25, [−58.6000, −78.6000]], [7.26, [−58.7500, −78.7500]], [7.27, [−58.9000, −78.9000]], [7.28, [−59.0500, −79.0500]], [7.29, [−59.2000, −79.2000]], [7.30, [−59.3500, −79.3500]], [7.31, [−59.5000, −79.5000]], [7.32, [−59.6500, −79.6500]], [7.33, [−59.8000, −79.8000]], [7.34, [−59.9500, −79.9500]], [7.35, [−60.1000, −80.1000]], [7.36, [−60.2500, −80.2500]], [7.37, [−60.4000, −80.4000]], [7.38, [−60.5500, −80.5500]], [7.39, [−60.7000, −80.7000]], [7.40, [−60.8500, −80.8500]], [7.41, [−61.0000, −81.0000]], [7.42, [−61.1500, −81.1500]], [7.43, [−61.3000, −81.3000]], [7.44, [−61.4500, −81.4500]], [7.45, [−61.6000, −81.6000]], [7.46, [−61.7500, −81.7500]], [7.47, [−61.9000, −81.9000]], [7.48, [−62.0500, −82.0500]], [7.49, [−62.2000, −82.2000]], [7.50, [−62.3500, −82.3500]], [7.51, [−62.5000, −82.5000]], [7.52, [−62.6500, −82.6500]], [7.53, [−62.8000, −82.8000]], [7.54, [−62.9500, −82.9500]], [7.55, [−63.1000, −83.1000]], [7.56, [−63.2500, −83.2500]], [7.57, [−63.4000, −83.4000]], [7.58, [−63.5500, −83.5500]], [7.59,

[−63.7000, −83.7000]], [7.60, [−63.8500, −83.8500]], [7.61, [−64.0000, −84.0000]], [7.62, [−64.1500, −84.1500]], [7.63, [−64.3000, −84.3000]], [7.64, [−64.4500, −84.4500]], [7.65, [−64.6000, −84.6000]], [7.66, [−64.7500, −84.7500]], [7.67, [−64.9000, −84.9000]], [7.68, [−65.0500, −85.0500]], [7.69, [−65.2000, −85.2000]], [7.70, [−65.3500, −85.3500]], [7.71, [−65.5000, −85.5000]], [7.72, [−65.6500, −85.6500]], [7.73, [−65.8000, −85.8000]], [7.74, [−65.9500, −85.9500]], [7.75, [−66.1000, −86.1000]], [7.76, [−66.2500, −86.2500]], [7.77, [−66.4000, −86.4000]], [7.78, [−66.5500, −86.5500]], [7.79, [−66.7000, −86.7000]], [7.80, [−66.8500, −86.8500]], [7.81, [−67.0000, −87.0000]], [7.82, [−67.1500, −87.1500]], [7.83, [−67.3000, −87.3000]], [7.84, [−67.4500, −87.4500]], [7.85, [−67.6000, −87.6000]], [7.86, [−67.7500, −87.7500]], [7.87, [−67.9000, −87.9000]], [7.88, [−68.0500, −88.0500]], [7.89, [−68.2000, −88.2000]], [7.90, [−68.3500, −88.3500]], [7.91, [−68.5000, −88.5000]], [7.92, [−68.6500, −88.6500]], [7.93, [−68.8000, −88.8000]], [7.94, [−68.9500, −88.9500]], [7.95, [−69.1000, −89.1000]], [7.96, [−69.2500, −89.2500]], [7.97, [−69.4000, −89.4000]], [7.98, [−69.5500, −89.5500]], [7.99, [−69.7000, −89.7000]], [8.00, [−69.8500, −89.8500]], [8.01, [−70.0000, −90.0000]], [8.02, [−70.1500, −90.1500]], [8.03, [−70.3000, −90.3000]], [8.04, [−70.4500, −90.4500]], [8.05, [−70.6000, −90.6000]], [8.06, [−70.7500, −90.7500]], [8.07, [−70.9000, −90.9000]], [8.08, [−71.0500, −91.0500]], [8.09, [−71.2000, −91.2000]], [8.10, [−71.3500, −91.3500]], [8.11, [−71.5000, −91.5000]], [8.12, [−71.6500, −91.6500]], [8.13, [−71.8000, −91.8000]], [8.14, [−71.9500, −91.9500]], [8.15, [−72.1000, −92.1000]], [8.16, [−72.2500, −92.2500]], [8.17, [−72.4000, −92.4000]], [8.18, [−72.5500, −92.5500]], [8.19, [−72.7000, −92.7000]], [8.20, [−72.8500, −92.8500]], [8.21, [−73.0000, −93.0000]], [8.22, [−73.1500, −93.1500]], [8.23, [−73.3000, −93.3000]], [8.24, [−73.4500, −93.4500]], [8.25, [−73.6000, −93.6000]], [8.26, [−73.7500, −93.7500]], [8.27, [−73.9000, −93.9000]], [8.28, [−74.0500, −94.0500]], [8.29, [−74.2000, −94.2000]], [8.30, [−74.3500, −94.3500]], [8.31, [−74.5000, −94.5000]], [8.32, [−74.6500, −94.6500]], [8.33, [−74.8000, −94.8000]], [8.34, [−74.9500, −94.9500]], [8.35, [−75.1000, −95.1000]], [8.36, [−75.2500, −95.2500]], [8.37, [−75.4000, −95.4000]], [8.38, [−75.5500, −95.5500]], [8.39, [−75.7000, −95.7000]], [8.40, [−75.8500, −95.8500]], [8.41, [−76.0000, −96.0000]], [8.42, [−76.1500, −96.1500]], [8.43, [−76.3000, −96.3000]], [8.44, [−76.4500, −96.4500]], [8.45, [−76.6000, −96.6000]], [8.46, [−76.7500, −96.7500]], [8.47, [−76.9000, −96.9000]], [8.48, [−77.0500, −97.0500]], [8.49, [−77.2000, −97.2000]], [8.50, [−77.3500, −97.3500]], [8.51, [−77.5000, −97.5000]], [8.52, [−77.6500, −97.6500]], [8.53, [−77.8000, −97.8000]], [8.54, [−77.9500, −97.9500]], [8.55, [−78.1000, −98.1000]], [8.56, [−78.2500, −98.2500]], [8.57, [−78.4000, −98.4000]], [8.58, [−78.5500, −98.5500]], [8.59, [−78.7000, −98.7000]], [8.60, [−78.8500,

−98.8500]], [8.61, [−79.0000, −99.0000]], [8.62, [−79.1500, −99.1500]], [8.63, [−79.3000, −99.3000]], [8.64, [−79.4500, −99.4500]], [8.65, [−79.6000, −99.6000]], [8.66, [−79.7500, −99.7500]], [8.67, [−79.9000, −99.9000]], [8.68, [−80.0500, −100.0500]], [8.69, [−80.2000, −100.2000]], [8.70, [−80.3500, −100.3500]], [8.71, [−80.5000, −100.5000]], [8.72, [−80.6500, −100.6500]], [8.73, [−80.8000, −100.8000]], [8.74, [−80.9500, −100.9500]], [8.75, [−81.1000, −101.1000]], [8.76, [−81.2500, −101.2500]], [8.77, [−81.4000, −101.4000]], [8.78, [−81.5500, −101.5500]], [8.79, [−81.7000, −101.7000]], [8.80, [−81.8500, −101.8500]], [8.81, [−82.0000, −102.0000]], [8.82, [−82.1500, −102.1500]], [8.83, [−82.3000, −102.3000]], [8.84, [−82.4500, −102.4500]], [8.85, [−82.6000, −102.6000]], [8.86, [−82.7500, −102.7500]], [8.87, [−82.9000, −102.9000]], [8.88, [−83.0500, −103.0500]], [8.89, [−83.2000, −103.2000]], [8.90, [−83.3500, −103.3500]], [8.91, [−83.5000, −103.5000]], [8.92, [−83.6500, −103.6500]], [8.93, [−83.8000, −103.8000]], [8.94, [−83.9500, −103.9500]], [8.95, [−84.1000, −104.1000]], [8.96, [−84.2500, −104.2500]], [8.97, [−84.4000, −104.4000]], [8.98, [−84.5500, −104.5500]], [8.99, [−84.7000, −104.7000]], [9.00, [−84.8500, −104.8500]], [9.01, [−85.0000, −105.0000]], [9.02, [−85.1500, −105.1500]], [9.03, [−85.3000, −105.3000]], [9.04, [−85.4500, −105.4500]], [9.05, [−85.6000, −105.6000]], [9.06, [−85.7500, −105.7500]], [9.07, [−85.9000, −105.9000]], [9.08, [−86.0500, −106.0500]], [9.09, [−86.2000, −106.2000]], [9.10, [−86.3500, −106.3500]], [9.11, [−86.5000, −106.5000]], [9.12, [−86.6500, −106.6500]], [9.13, [−86.8000, −106.8000]], [9.14, [−86.9500, −106.9500]], [9.15, [−87.1000, −107.1000]], [9.16, [−87.2500, −107.2500]], [9.17, [−87.4000, −107.4000]], [9.18, [−87.5500, −107.5500]], [9.19, [−87.7000, −107.7000]], [9.20, [−87.8500, −107.8500]], [9.21, [−88.0000, −108.0000]], [9.22, [−88.1500, −108.1500]], [9.23, [−88.3000, −108.3000]], [9.24, [−88.4500, −108.4500]], [9.25, [−88.6000, −108.6000]], [9.26, [−88.7500, −108.7500]], [9.27, [−88.9000, −108.9000]], [9.28, [−89.0500, −109.0500]], [9.29, [−89.2000, −109.2000]], [9.30, [−89.3500, −109.3500]], [9.31, [−89.5000, −109.5000]], [9.32, [−89.6500, −109.6500]], [9.33, [−89.8000, −109.8000]], [9.34, [−89.9500, −109.9500]], [9.35, [−90.1000, −110.1000]], [9.36, [−90.2500, −110.2500]], [9.37, [−90.4000, −110.4000]], [9.38, [−90.5500, −110.5500]], [9.39, [−90.7000, −110.7000]], [9.40, [−90.8500, −110.8500]], [9.41, [−91.0000, −111.0000]], [9.42, [−91.1500, −111.1500]], [9.43, [−91.3000, −111.3000]], [9.44, [−91.4500, −111.4500]], [9.45, [−91.6000, −111.6000]], [9.46, [−91.7500, −111.7500]], [9.47, [−91.9000, −111.9000]], [9.48, [−92.0500, −112.0500]], [9.49, [−92.2000, −112.2000]], [9.50, [−92.3500, −112.3500]], [9.51, [−92.5000, −112.5000]], [9.52, [−92.6500, −112.6500]], [9.53, [−92.8000, −112.8000]], [9.54, [−92.9500, −112.9500]], [9.55, [−93.1000, −113.1000]], [9.56,



$[-93.2500, -113.2500]$ ,  $[9.57, [-93.4000, -113.4000]]$ ,  $[9.58, [-93.5500, -113.5500]]$ ,  $[9.59, [-93.7000, -113.7000]]$ ,  $[9.60, [-93.8500, -113.8500]]$ ,  $[9.61, [-94.0000, -114.0000]]$ ,  $[9.62, [-94.1500, -114.1500]]$ ,  $[9.63, [-94.3000, -114.3000]]$ ,  $[9.64, [-94.4500, -114.4500]]$ ,  $[9.65, [-94.6000, -114.6000]]$ ,  $[9.66, [-94.7500, -114.7500]]$ ,  $[9.67, [-94.9000, -114.9000]]$ ,  $[9.68, [-95.0500, -115.0500]]$ ,  $[9.69, [-95.2000, -115.2000]]$ ,  $[9.70, [-95.3500, -115.3500]]$ ,  $[9.71, [-95.5000, -115.5000]]$ ,  $[9.72, [-95.6500, -115.6500]]$ ,  $[9.73, [-95.8000, -115.8000]]$ ,  $[9.74, [-95.9500, -115.9500]]$ ,  $[9.75, [-96.1000, -116.1000]]$ ,  $[9.76, [-96.2500, -116.2500]]$ ,  $[9.77, [-96.4000, -116.4000]]$ ,  $[9.78, [-96.5500, -116.5500]]$ ,  $[9.79, [-96.7000, -116.7000]]$ ,  $[9.80, [-96.8500, -116.8500]]$ ,  $[9.81, [-97.0000, -117.0000]]$ ,  $[9.82, [-97.1500, -117.1500]]$ ,  $[9.83, [-97.3000, -117.3000]]$ ,  $[9.84, [-97.4500, -117.4500]]$ ,  $[9.85, [-97.6000, -117.6000]]$ ,  $[9.86, [-97.7500, -117.7500]]$ ,  $[9.87, [-97.9000, -117.9000]]$ ,  $[9.88, [-98.0500, -118.0500]]$ ,  $[9.89, [-98.2000, -118.2000]]$ ,  $[9.90, [-98.3500, -118.3500]]$ ,  $[9.91, [-98.5000, -118.5000]]$ ,  $[9.92, [-98.6500, -118.6500]]$ ,  $[9.93, [-98.8000, -118.8000]]$ ,  $[9.94, [-98.9500, -118.9500]]$ ,  $[9.95, [-99.1000, -119.1000]]$ ,  $[9.96, [-99.2500, -119.2500]]$ ,  $[9.97, [-99.4000, -119.4000]]$ ,  $[9.98, [-99.5500, -119.5500]]$ ,  $[9.99, [-99.7000, -119.7000]]$ ,  $[10.00, [-99.8500, -119.8500]]$ ,  $[10.01, [-100.0000, -120.0000]]$

>  $Dis2(SIRS(90, 30, 0.01, 0, 1, 120), s, i, [90, 30], 0.01, 10)$

$[ [0.01, [90, 30]]$ ,  $[0.02, [89.7300, 29.9700]]$ ,  $[0.03, [89.4600, 29.9400]]$ ,  $[0.04, [89.1900, 29.9100]]$ ,  $[0.05, [88.9200, 29.8800]]$ ,  $[0.06, [88.6500, 29.8500]]$ ,  $[0.07, [88.3800, 29.8200]]$ ,  $[0.08, [88.1100, 29.7900]]$ ,  $[0.09, [87.8400, 29.7600]]$ ,  $[0.10, [87.5700, 29.7300]]$ ,  $[0.11, [87.3000, 29.7000]]$ ,  $[0.12, [87.0300, 29.6700]]$ ,  $[0.13, [86.7600, 29.6400]]$ ,  $[0.14, [86.4900, 29.6100]]$ ,  $[0.15, [86.2200, 29.5800]]$ ,  $[0.16, [85.9500, 29.5500]]$ ,  $[0.17, [85.6800, 29.5200]]$ ,  $[0.18, [85.4100, 29.4900]]$ ,  $[0.19, [85.1400, 29.4600]]$ ,  $[0.20, [84.8700, 29.4300]]$ ,  $[0.21, [84.6000, 29.4000]]$ ,  $[0.22, [84.3300, 29.3700]]$ ,  $[0.23, [84.0600, 29.3400]]$ ,  $[0.24, [83.7900, 29.3100]]$ ,  $[0.25, [83.5200, 29.2800]]$ ,  $[0.26, [83.2500, 29.2500]]$ ,  $[0.27, [82.9800, 29.2200]]$ ,  $[0.28, [82.7100, 29.1900]]$ ,  $[0.29, [82.4400, 29.1600]]$ ,  $[0.30, [82.1700, 29.1300]]$ ,  $[0.31, [81.9000, 29.1000]]$ ,  $[0.32, [81.6300, 29.0700]]$ ,  $[0.33, [81.3600, 29.0400]]$ ,  $[0.34, [81.0900, 29.0100]]$ ,  $[0.35, [80.8200, 28.9800]]$ ,  $[0.36, [80.5500, 28.9500]]$ ,  $[0.37, [80.2800, 28.9200]]$ ,  $[0.38, [80.0100, 28.8900]]$ ,  $[0.39, [79.7400, 28.8600]]$ ,  $[0.40, [79.4700, 28.8300]]$ ,  $[0.41, [79.2000, 28.8000]]$ ,  $[0.42, [78.9300, 28.7700]]$ ,  $[0.43, [78.6600, 28.7400]]$ ,  $[0.44, [78.3900, 28.7100]]$ ,  $[0.45, [78.1200, 28.6800]]$ ,  $[0.46, [77.8500, 28.6500]]$ ,  $[0.47, [77.5800, 28.6200]]$ ,  $[0.48, [77.3100, 28.5900]]$ ,  $[0.49, [77.0400, 28.5600]]$ ,  $[0.50, [76.7700, 28.5300]]$ ,  $[0.51, [76.5000, 28.5000]]$ ,  $[0.52, [76.2300, 28.4700]]$ ,  $[0.53, [75.9600, 28.4400]]$ ,  $[0.54, [75.6900, 28.4100]]$ ,  $[0.55, [75.4200,$

**(14)**

28.3800]], [0.56, [75.1500, 28.3500]], [0.57, [74.8800, 28.3200]], [0.58, [74.6100, 28.2900]], [0.59, [74.3400, 28.2600]], [0.60, [74.0700, 28.2300]], [0.61, [73.8000, 28.2000]], [0.62, [73.5300, 28.1700]], [0.63, [73.2600, 28.1400]], [0.64, [72.9900, 28.1100]], [0.65, [72.7200, 28.0800]], [0.66, [72.4500, 28.0500]], [0.67, [72.1800, 28.0200]], [0.68, [71.9100, 27.9900]], [0.69, [71.6400, 27.9600]], [0.70, [71.3700, 27.9300]], [0.71, [71.1000, 27.9000]], [0.72, [70.8300, 27.8700]], [0.73, [70.5600, 27.8400]], [0.74, [70.2900, 27.8100]], [0.75, [70.0200, 27.7800]], [0.76, [69.7500, 27.7500]], [0.77, [69.4800, 27.7200]], [0.78, [69.2100, 27.6900]], [0.79, [68.9400, 27.6600]], [0.80, [68.6700, 27.6300]], [0.81, [68.4000, 27.6000]], [0.82, [68.1300, 27.5700]], [0.83, [67.8600, 27.5400]], [0.84, [67.5900, 27.5100]], [0.85, [67.3200, 27.4800]], [0.86, [67.0500, 27.4500]], [0.87, [66.7800, 27.4200]], [0.88, [66.5100, 27.3900]], [0.89, [66.2400, 27.3600]], [0.90, [65.9700, 27.3300]], [0.91, [65.7000, 27.3000]], [0.92, [65.4300, 27.2700]], [0.93, [65.1600, 27.2400]], [0.94, [64.8900, 27.2100]], [0.95, [64.6200, 27.1800]], [0.96, [64.3500, 27.1500]], [0.97, [64.0800, 27.1200]], [0.98, [63.8100, 27.0900]], [0.99, [63.5400, 27.0600]], [1.00, [63.2700, 27.0300]], [1.01, [63.0000, 27.0000]], [1.02, [62.7300, 26.9700]], [1.03, [62.4600, 26.9400]], [1.04, [62.1900, 26.9100]], [1.05, [61.9200, 26.8800]], [1.06, [61.6500, 26.8500]], [1.07, [61.3800, 26.8200]], [1.08, [61.1100, 26.7900]], [1.09, [60.8400, 26.7600]], [1.10, [60.5700, 26.7300]], [1.11, [60.3000, 26.7000]], [1.12, [60.0300, 26.6700]], [1.13, [59.7600, 26.6400]], [1.14, [59.4900, 26.6100]], [1.15, [59.2200, 26.5800]], [1.16, [58.9500, 26.5500]], [1.17, [58.6800, 26.5200]], [1.18, [58.4100, 26.4900]], [1.19, [58.1400, 26.4600]], [1.20, [57.8700, 26.4300]], [1.21, [57.6000, 26.4000]], [1.22, [57.3300, 26.3700]], [1.23, [57.0600, 26.3400]], [1.24, [56.7900, 26.3100]], [1.25, [56.5200, 26.2800]], [1.26, [56.2500, 26.2500]], [1.27, [55.9800, 26.2200]], [1.28, [55.7100, 26.1900]], [1.29, [55.4400, 26.1600]], [1.30, [55.1700, 26.1300]], [1.31, [54.9000, 26.1000]], [1.32, [54.6300, 26.0700]], [1.33, [54.3600, 26.0400]], [1.34, [54.0900, 26.0100]], [1.35, [53.8200, 25.9800]], [1.36, [53.5500, 25.9500]], [1.37, [53.2800, 25.9200]], [1.38, [53.0100, 25.8900]], [1.39, [52.7400, 25.8600]], [1.40, [52.4700, 25.8300]], [1.41, [52.2000, 25.8000]], [1.42, [51.9300, 25.7700]], [1.43, [51.6600, 25.7400]], [1.44, [51.3900, 25.7100]], [1.45, [51.1200, 25.6800]], [1.46, [50.8500, 25.6500]], [1.47, [50.5800, 25.6200]], [1.48, [50.3100, 25.5900]], [1.49, [50.0400, 25.5600]], [1.50, [49.7700, 25.5300]], [1.51, [49.5000, 25.5000]], [1.52, [49.2300, 25.4700]], [1.53, [48.9600, 25.4400]], [1.54, [48.6900, 25.4100]], [1.55, [48.4200, 25.3800]], [1.56, [48.1500, 25.3500]], [1.57, [47.8800, 25.3200]], [1.58, [47.6100, 25.2900]], [1.59, [47.3400, 25.2600]], [1.60, [47.0700, 25.2300]], [1.61, [46.8000, 25.2000]], [1.62, [46.5300, 25.1700]], [1.63, [46.2600, 25.1400]], [1.64, [45.9900, 25.1100]], [1.65, [45.7200, 25.0800]], [1.66, [45.4500, 25.0500]], [1.67, [45.1800, 25.0200]], [1.68, [44.9100, 24.9900]], [1.69, [44.6400,

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[−110.3400, 7.7400]], [7.44, [−110.6100, 7.7100]], [7.45, [−110.8800, 7.6800]], [7.46, [−111.1500, 7.6500]], [7.47, [−111.4200, 7.6200]], [7.48, [−111.6900, 7.5900]], [7.49, [−111.9600, 7.5600]], [7.50, [−112.2300, 7.5300]], [7.51, [−112.5000, 7.5000]], [7.52, [−112.7700, 7.4700]], [7.53, [−113.0400, 7.4400]], [7.54, [−113.3100, 7.4100]], [7.55, [−113.5800, 7.3800]], [7.56, [−113.8500, 7.3500]], [7.57, [−114.1200, 7.3200]], [7.58, [−114.3900, 7.2900]], [7.59, [−114.6600, 7.2600]], [7.60, [−114.9300, 7.2300]], [7.61, [−115.2000, 7.2000]], [7.62, [−115.4700, 7.1700]], [7.63, [−115.7400, 7.1400]], [7.64, [−116.0100, 7.1100]], [7.65, [−116.2800, 7.0800]], [7.66, [−116.5500, 7.0500]], [7.67, [−116.8200, 7.0200]], [7.68, [−117.0900, 6.9900]], [7.69, [−117.3600, 6.9600]], [7.70, [−117.6300, 6.9300]], [7.71, [−117.9000, 6.9000]], [7.72, [−118.1700, 6.8700]], [7.73, [−118.4400, 6.8400]], [7.74, [−118.7100, 6.8100]], [7.75, [−118.9800, 6.7800]], [7.76, [−119.2500, 6.7500]], [7.77, [−119.5200, 6.7200]], [7.78, [−119.7900, 6.6900]], [7.79, [−120.0600, 6.6600]], [7.80, [−120.3300, 6.6300]], [7.81, [−120.6000, 6.6000]], [7.82, [−120.8700, 6.5700]], [7.83, [−121.1400, 6.5400]], [7.84, [−121.4100, 6.5100]], [7.85, [−121.6800, 6.4800]], [7.86, [−121.9500, 6.4500]], [7.87, [−122.2200, 6.4200]], [7.88, [−122.4900, 6.3900]], [7.89, [−122.7600, 6.3600]], [7.90, [−123.0300, 6.3300]], [7.91, [−123.3000, 6.3000]], [7.92, [−123.5700, 6.2700]], [7.93, [−123.8400, 6.2400]], [7.94, [−124.1100, 6.2100]], [7.95, [−124.3800, 6.1800]], [7.96, [−124.6500, 6.1500]], [7.97, [−124.9200, 6.1200]], [7.98, [−125.1900, 6.0900]], [7.99, [−125.4600, 6.0600]], [8.00, [−125.7300, 6.0300]], [8.01, [−126.0000, 6.0000]], [8.02, [−126.2700, 5.9700]], [8.03, [−126.5400, 5.9400]], [8.04, [−126.8100, 5.9100]], [8.05, [−127.0800, 5.8800]], [8.06, [−127.3500, 5.8500]], [8.07, [−127.6200, 5.8200]], [8.08, [−127.8900, 5.7900]], [8.09, [−128.1600, 5.7600]], [8.10, [−128.4300, 5.7300]], [8.11, [−128.7000, 5.7000]], [8.12, [−128.9700, 5.6700]], [8.13, [−129.2400, 5.6400]], [8.14, [−129.5100, 5.6100]], [8.15, [−129.7800, 5.5800]], [8.16, [−130.0500, 5.5500]], [8.17, [−130.3200, 5.5200]], [8.18, [−130.5900, 5.4900]], [8.19, [−130.8600, 5.4600]], [8.20, [−131.1300, 5.4300]], [8.21, [−131.4000, 5.4000]], [8.22, [−131.6700, 5.3700]], [8.23, [−131.9400, 5.3400]], [8.24, [−132.2100, 5.3100]], [8.25, [−132.4800, 5.2800]], [8.26, [−132.7500, 5.2500]], [8.27, [−133.0200, 5.2200]], [8.28, [−133.2900, 5.1900]], [8.29, [−133.5600, 5.1600]], [8.30, [−133.8300, 5.1300]], [8.31, [−134.1000, 5.1000]], [8.32, [−134.3700, 5.0700]], [8.33, [−134.6400, 5.0400]], [8.34, [−134.9100, 5.0100]], [8.35, [−135.1800, 4.9800]], [8.36, [−135.4500, 4.9500]], [8.37, [−135.7200, 4.9200]], [8.38, [−135.9900, 4.8900]], [8.39, [−136.2600, 4.8600]], [8.40, [−136.5300, 4.8300]], [8.41, [−136.8000, 4.8000]], [8.42, [−137.0700, 4.7700]], [8.43, [−137.3400, 4.7400]], [8.44, [−137.6100, 4.7100]], [8.45, [−137.8800, 4.6800]], [8.46, [−138.1500, 4.6500]], [8.47, [−138.4200, 4.6200]], [8.48, [−138.6900, 4.5900]], [8.49, [−138.9600, 4.5600]], [8.50, [−139.2300, 4.5300]], [8.51, [−139.5000, 4.5000]], [8.52, [−139.7700, 4.4700]], [8.53, [−140.0400, 4.4400]], [8.54, [−140.3100, 4.4100]], [8.55, [−140.5800, 4.3800]], [8.56, [−140.8500, 4.3500]], [8.57,



[−141.1200, 4.3200]], [8.58, [−141.3900, 4.2900]], [8.59, [−141.6600, 4.2600]], [8.60, [−141.9300, 4.2300]], [8.61, [−142.2000, 4.2000]], [8.62, [−142.4700, 4.1700]], [8.63, [−142.7400, 4.1400]], [8.64, [−143.0100, 4.1100]], [8.65, [−143.2800, 4.0800]], [8.66, [−143.5500, 4.0500]], [8.67, [−143.8200, 4.0200]], [8.68, [−144.0900, 3.9900]], [8.69, [−144.3600, 3.9600]], [8.70, [−144.6300, 3.9300]], [8.71, [−144.9000, 3.9000]], [8.72, [−145.1700, 3.8700]], [8.73, [−145.4400, 3.8400]], [8.74, [−145.7100, 3.8100]], [8.75, [−145.9800, 3.7800]], [8.76, [−146.2500, 3.7500]], [8.77, [−146.5200, 3.7200]], [8.78, [−146.7900, 3.6900]], [8.79, [−147.0600, 3.6600]], [8.80, [−147.3300, 3.6300]], [8.81, [−147.6000, 3.6000]], [8.82, [−147.8700, 3.5700]], [8.83, [−148.1400, 3.5400]], [8.84, [−148.4100, 3.5100]], [8.85, [−148.6800, 3.4800]], [8.86, [−148.9500, 3.4500]], [8.87, [−149.2200, 3.4200]], [8.88, [−149.4900, 3.3900]], [8.89, [−149.7600, 3.3600]], [8.90, [−150.0300, 3.3300]], [8.91, [−150.3000, 3.3000]], [8.92, [−150.5700, 3.2700]], [8.93, [−150.8400, 3.2400]], [8.94, [−151.1100, 3.2100]], [8.95, [−151.3800, 3.1800]], [8.96, [−151.6500, 3.1500]], [8.97, [−151.9200, 3.1200]], [8.98, [−152.1900, 3.0900]], [8.99, [−152.4600, 3.0600]], [9.00, [−152.7300, 3.0300]], [9.01, [−153.0000, 3.0000]], [9.02, [−153.2700, 2.9700]], [9.03, [−153.5400, 2.9400]], [9.04, [−153.8100, 2.9100]], [9.05, [−154.0800, 2.8800]], [9.06, [−154.3500, 2.8500]], [9.07, [−154.6200, 2.8200]], [9.08, [−154.8900, 2.7900]], [9.09, [−155.1600, 2.7600]], [9.10, [−155.4300, 2.7300]], [9.11, [−155.7000, 2.7000]], [9.12, [−155.9700, 2.6700]], [9.13, [−156.2400, 2.6400]], [9.14, [−156.5100, 2.6100]], [9.15, [−156.7800, 2.5800]], [9.16, [−157.0500, 2.5500]], [9.17, [−157.3200, 2.5200]], [9.18, [−157.5900, 2.4900]], [9.19, [−157.8600, 2.4600]], [9.20, [−158.1300, 2.4300]], [9.21, [−158.4000, 2.4000]], [9.22, [−158.6700, 2.3700]], [9.23, [−158.9400, 2.3400]], [9.24, [−159.2100, 2.3100]], [9.25, [−159.4800, 2.2800]], [9.26, [−159.7500, 2.2500]], [9.27, [−160.0200, 2.2200]], [9.28, [−160.2900, 2.1900]], [9.29, [−160.5600, 2.1600]], [9.30, [−160.8300, 2.1300]], [9.31, [−161.1000, 2.1000]], [9.32, [−161.3700, 2.0700]], [9.33, [−161.6400, 2.0400]], [9.34, [−161.9100, 2.0100]], [9.35, [−162.1800, 1.9800]], [9.36, [−162.4500, 1.9500]], [9.37, [−162.7200, 1.9200]], [9.38, [−162.9900, 1.8900]], [9.39, [−163.2600, 1.8600]], [9.40, [−163.5300, 1.8300]], [9.41, [−163.8000, 1.8000]], [9.42, [−164.0700, 1.7700]], [9.43, [−164.3400, 1.7400]], [9.44, [−164.6100, 1.7100]], [9.45, [−164.8800, 1.6800]], [9.46, [−165.1500, 1.6500]], [9.47, [−165.4200, 1.6200]], [9.48, [−165.6900, 1.5900]], [9.49, [−165.9600, 1.5600]], [9.50, [−166.2300, 1.5300]], [9.51, [−166.5000, 1.5000]], [9.52, [−166.7700, 1.4700]], [9.53, [−167.0400, 1.4400]], [9.54, [−167.3100, 1.4100]], [9.55, [−167.5800, 1.3800]], [9.56, [−167.8500, 1.3500]], [9.57, [−168.1200, 1.3200]], [9.58, [−168.3900, 1.2900]], [9.59, [−168.6600, 1.2600]], [9.60, [−168.9300, 1.2300]], [9.61, [−169.2000, 1.2000]], [9.62, [−169.4700, 1.1700]], [9.63, [−169.7400, 1.1400]], [9.64, [−170.0100, 1.1100]], [9.65, [−170.2800, 1.0800]], [9.66, [−170.5500, 1.0500]], [9.67, [−170.8200, 1.0200]], [9.68, [−171.0900, 0.9900]], [9.69, [−171.3600, 0.9600]], [9.70, [−171.6300, 0.9300]], [9.71,

[−171.9000, 0.9000]], [9.72, [−172.1700, 0.8700]], [9.73, [−172.4400, 0.8400]], [9.74, [−172.7100, 0.8100]], [9.75, [−172.9800, 0.7800]], [9.76, [−173.2500, 0.7500]], [9.77, [−173.5200, 0.7200]], [9.78, [−173.7900, 0.6900]], [9.79, [−174.0600, 0.6600]], [9.80, [−174.3300, 0.6300]], [9.81, [−174.6000, 0.6000]], [9.82, [−174.8700, 0.5700]], [9.83, [−175.1400, 0.5400]], [9.84, [−175.4100, 0.5100]], [9.85, [−175.6800, 0.4800]], [9.86, [−175.9500, 0.4500]], [9.87, [−176.2200, 0.4200]], [9.88, [−176.4900, 0.3900]], [9.89, [−176.7600, 0.3600]], [9.90, [−177.0300, 0.3300]], [9.91, [−177.3000, 0.3000]], [9.92, [−177.5700, 0.2700]], [9.93, [−177.8400, 0.2400]], [9.94, [−178.1100, 0.2100]], [9.95, [−178.3800, 0.1800]], [9.96, [−178.6500, 0.1500]], [9.97, [−178.9200, 0.1200]], [9.98, [−179.1900, 0.0900]], [9.99, [−179.4600, 0.0600]], [10.00, [−179.7300, 0.0300]], [10.01, [−180.0000, 0.]]]



## HW 18

$$3. \quad x'(t) = x(t)(1 - x(t) - y(t)) \Rightarrow x - x^2 - xy$$

$$y'(t) = x(t)(3 - 2x(t) - y(t)) \Rightarrow 3x - 2x^2 - xy$$

$$0 = x(1 - x - y) \quad 0 = x(3 - 2x - y)$$

$$x = 0, x + y = 1 \quad x = 0, 2x + y = 3$$

$$(0, 1)$$

$$(0, 3)$$

$$J = \begin{pmatrix} 1 - 2x - y & -x \\ 3 - 4x - y & -x \end{pmatrix}$$

$$J(0, 1) = \begin{pmatrix} 0 & 0 \\ 2 & 0 \end{pmatrix} \Rightarrow \lambda = 0, 0 \Rightarrow \text{semi-stable}$$

$$J(0, 3) = \begin{pmatrix} -2 & 0 \\ 0 & 0 \end{pmatrix} \Rightarrow \lambda = 0, -2 \Rightarrow \text{not stable}$$