

```

> #OK to post
>
> #Anne Somalwar, hw18, 11.8.2021
>
> #1
>
> C := proc(a, b, c, d, e) :
>    $\frac{b \cdot d \cdot e}{c \cdot a}$ ;
> end:
> C( $\frac{3}{2}, \frac{3}{2}, \frac{3}{2}, 3, 3$ )
>
>
>
> #2
>
> W := proc(a, b, k) :
>    $\frac{a \cdot (a \cdot k - b)}{b - a} + a \cdot k$ ;
> end:
>
> W(4, 5, 2)
>
> #3
> F := [x · (1 - x - y), x · (3 - 2 · x - y)]
>
> solve({x · (1 - x - y) = 0, x · (3 - 2 · x - y) = 0}, {x, y})
>
>

```

6 (1)

20 (2)

$F := [x(1 - x - y), x(3 - 2x - y)]$ (3)

{x=0, y=y}, {x=2, y=-1} (4)

```
> # These are the equilibrium points.
```

(5)

```
>
```

```
>
```

```
>
```

```
> #4
```

```
> read "C:/Users/aks238/OneDrive - Rutgers University/Documents/M18.txt"
```

```
>
```

```
>
```

```
> # {x=2, y=-1}
```

```
> Dis2([x*(1-x-y), x*(3-2*x-y)], x, y, [2.1, -0.9], 0.01, 10)
```

(6)

```
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> #a point of the form (0,y)

> Dis2([x·(1 - x - y), x·(3 - 2·x - y)], x, y, [0.1, 2.1], 0.01, 10)

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(7)

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> *#In the long run, about 1 person remains infected.*