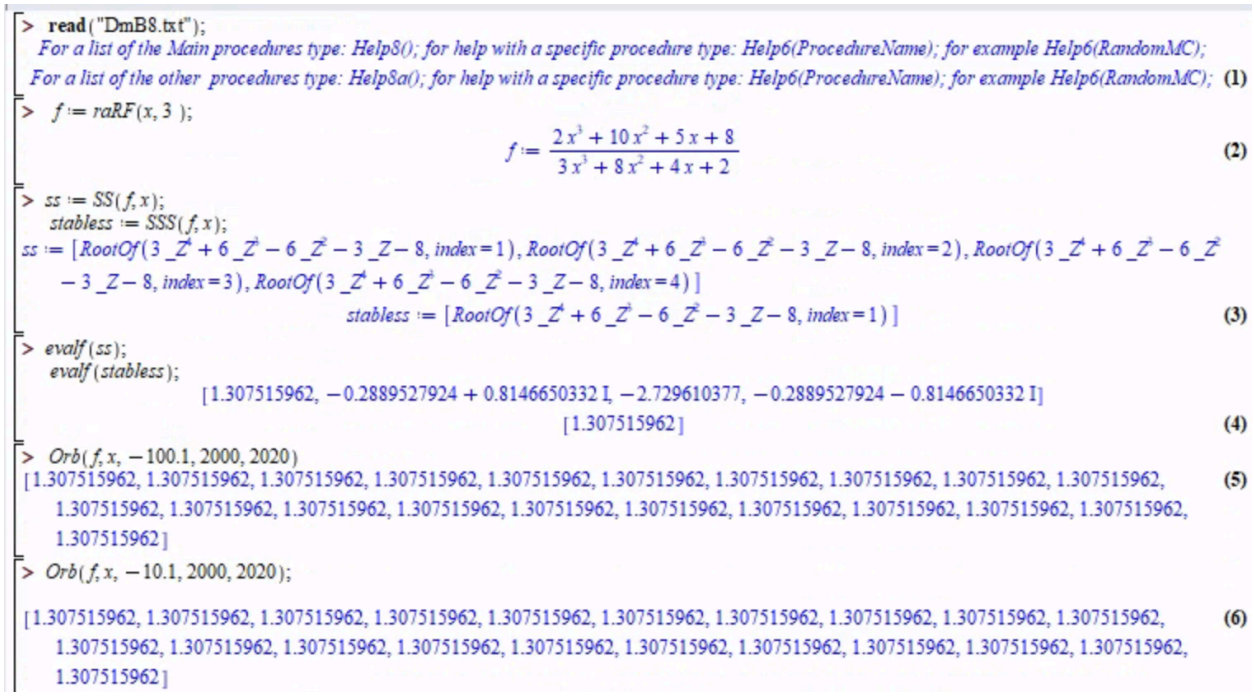
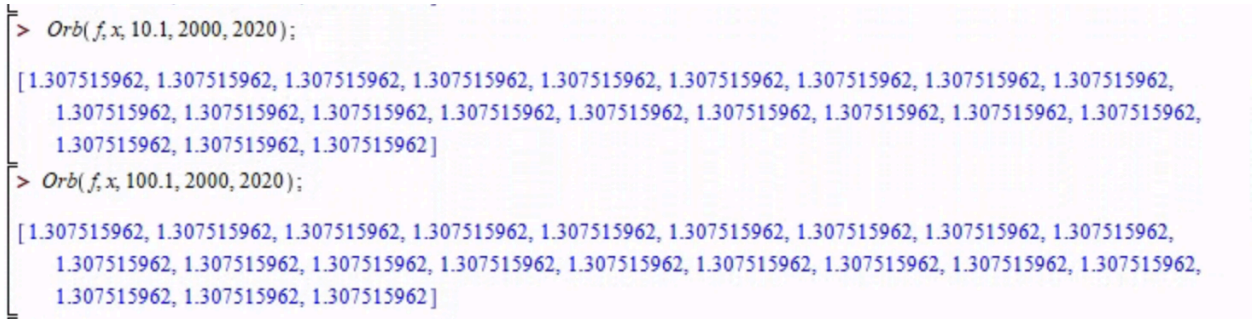
1. 
```
> read("DmB8.txt");
  For a list of the Main procedures type: Help8(); for help with a specific procedure type: Help6(ProcedureName); for example Help6(RandomMC);
  For a list of the other  procedures type: Help8a(); for help with a specific procedure type: Help6(ProcedureName); for example Help6(RandomMC);   (1)

> f := raRF(x, 3 );

                                   f := (2 x^3 + 10 x^2 + 5 x + 8)/(3 x^3 + 8 x^2 + 4 x + 2)                                   (2)

> ss := SS(f, x);
  stabless := SSS(f, x);
ss := [RootOf(3 _Z^4 + 6 _Z^3 - 6 _Z^2 - 3 _Z - 8, index = 1), RootOf(3 _Z^4 + 6 _Z^3 - 6 _Z^2 - 3 _Z - 8, index = 2), RootOf(3 _Z^4 + 6 _Z^3 - 6 _Z^2
    - 3 _Z - 8, index = 3), RootOf(3 _Z^4 + 6 _Z^3 - 6 _Z^2 - 3 _Z - 8, index = 4)]
                        stabless := [RootOf(3 _Z^4 + 6 _Z^3 - 6 _Z^2 - 3 _Z - 8, index = 1)]                                   (3)

> evalf(ss);
  evalf(stabless);
                  [1.307515962, -0.2889527924 + 0.8146650332 I, -2.729610377, -0.2889527924 - 0.8146650332 I]
                                          [1.307515962]                                                                     (4)

> Orb(f, x, -100.1, 2000, 2020)
[1.307515962, 1.307515962, 1.307515962, 1.307515962, 1.307515962, 1.307515962, 1.307515962, 1.307515962, 1.307515962,      (5)
  1.307515962, 1.307515962, 1.307515962, 1.307515962, 1.307515962, 1.307515962, 1.307515962, 1.307515962, 1.307515962,
  1.307515962]

> Orb(f, x, -10.1, 2000, 2020);

[1.307515962, 1.307515962, 1.307515962, 1.307515962, 1.307515962, 1.307515962, 1.307515962, 1.307515962, 1.307515962,      (6)
  1.307515962, 1.307515962, 1.307515962, 1.307515962, 1.307515962, 1.307515962, 1.307515962, 1.307515962, 1.307515962,
  1.307515962]
```


```
> Orb(f, x, 10.1, 2000, 2020);

[1.307515962, 1.307515962, 1.307515962, 1.307515962, 1.307515962, 1.307515962, 1.307515962, 1.307515962, 1.307515962,
  1.307515962, 1.307515962, 1.307515962, 1.307515962, 1.307515962, 1.307515962, 1.307515962, 1.307515962, 1.307515962,
  1.307515962, 1.307515962, 1.307515962]

> Orb(f, x, 100.1, 2000, 2020);

[1.307515962, 1.307515962, 1.307515962, 1.307515962, 1.307515962, 1.307515962, 1.307515962, 1.307515962, 1.307515962,
  1.307515962, 1.307515962, 1.307515962, 1.307515962, 1.307515962, 1.307515962, 1.307515962, 1.307515962, 1.307515962,
  1.307515962, 1.307515962, 1.307515962]
```

2. Too many numbers to screenshot
    a. k = 1, 2, 2.5: Converges to a point
    b. k = 3.1, 3.2 Oscillates between 2 values
    c. k = 3.3 shows to oscillate between several numbers
    d. k = 3.5: idk whats happening

3.

$$f := MakeNicePol([1, 2, 3, 4, 5, 6, 7, 8], 1, x)$$

"2 stable states at k =", 1

$$f := MakeNicePol([1, 2, 3, 4, 5, 6, 7, 8], 1, x)$$
$$f := MakeNicePol([1, 2, 3, 4, 5, 6, 7, 8], 2, x)$$
$$f := MakeNicePol([1, 2, 3, 4, 5, 6, 7, 8], 3, x)$$
$$f := MakeNicePol([1, 2, 3, 4, 5, 6, 7, 8], 4, x)$$
$$f := MakeNicePol([1, 2, 3, 4, 5, 6, 7, 8], 5, x)$$
$$f := MakeNicePol([1, 2, 3, 4, 5, 6, 7, 8], 6, x)$$
$$f := MakeNicePol([1, 2, 3, 4, 5, 6, 7, 8], 7, x)$$
$$f := MakeNicePol([1, 2, 3, 4, 5, 6, 7, 8], 8, x)$$
$$f := MakeNicePol([1, 2, 3, 4, 5, 6, 7, 8], 9, x)$$
$$f := MakeNicePol([1, 2, 3, 4, 5, 6, 7, 8], 10, x)$$
$$f := MakeNicePol([1, 2, 3, 4, 5, 6, 7, 8], 11, x)$$
$$f := MakeNicePol([1, 2, 3, 4, 5, 6, 7, 8], 12, x)$$
$$f := MakeNicePol([1, 2, 3, 4, 5, 6, 7, 8], 13, x)$$
$$f := MakeNicePol([1, 2, 3, 4, 5, 6, 7, 8], 14, x)$$
$$f := MakeNicePol([1, 2, 3, 4, 5, 6, 7, 8], 15, x)$$
$$f := MakeNicePol([1, 2, 3, 4, 5, 6, 7, 8], 16, x)$$
$$f := MakeNicePol([1, 2, 3, 4, 5, 6, 7, 8], 17, x)$$
$$f := MakeNicePol([1, 2, 3, 4, 5, 6, 7, 8], 18, x)$$
$$f := MakeNicePol([1, 2, 3, 4, 5, 6, 7, 8], 19, x)$$
$$f := MakeNicePol([1, 2, 3, 4, 5, 6, 7, 8], 20, x)$$

$f := MakeNicePol([1,2,3,4,5,6,7,8], 21, x)$

$f := MakeNicePol([1,2,3,4,5,6,7,8], 22, x)$

$f := MakeNicePol([1,2,3,4,5,6,7,8], 23, x)$

$f := MakeNicePol([1,2,3,4,5,6,7,8], 24, x)$

$f := MakeNicePol([1,2,3,4,5,6,7,8], 25, x)$

$f := MakeNicePol([1,2,3,4,5,6,7,8], 26, x)$

$f := MakeNicePol([1,2,3,4,5,6,7,8], 27, x)$

$f := MakeNicePol([1,2,3,4,5,6,7,8], 28, x)$

$f := MakeNicePol([1,2,3,4,5,6,7,8], 29, x)$

$f := MakeNicePol([1,2,3,4,5,6,7,8], 30, x)$

$f := MakeNicePol([1,2,3,4,5,6,7,8], 31, x)$

$f := MakeNicePol([1,2,3,4,5,6,7,8], 32, x)$

$f := MakeNicePol([1,2,3,4,5,6,7,8], 33, x)$

$f := MakeNicePol([1,2,3,4,5,6,7,8], 34, x)$

$f := MakeNicePol([1,2,3,4,5,6,7,8], 35, x)$

$f := MakeNicePol([1,2,3,4,5,6,7,8], 36, x)$

$f := MakeNicePol([1,2,3,4,5,6,7,8], 37, x)$

$f := MakeNicePol([1,2,3,4,5,6,7,8], 38, x)$

$f := MakeNicePol([1,2,3,4,5,6,7,8], 39, x)$

$f := MakeNicePol([1,2,3,4,5,6,7,8], 40, x)$

$f := MakeNicePol([1,2,3,4,5,6,7,8], 41, x)$

$f := MakeNicePol([1,2,3,4,5,6,7,8], 42, x)$

$f := MakeNicePol([1,2,3,4,5,6,7,8], 43, x)$

$f := MakeNicePol([1,2,3,4,5,6,7,8], 44, x)$

$f := MakeNicePol([1,2,3,4,5,6,7,8], 45, x)$

$f := MakeNicePol([1,2,3,4,5,6,7,8], 46, x)$