

```

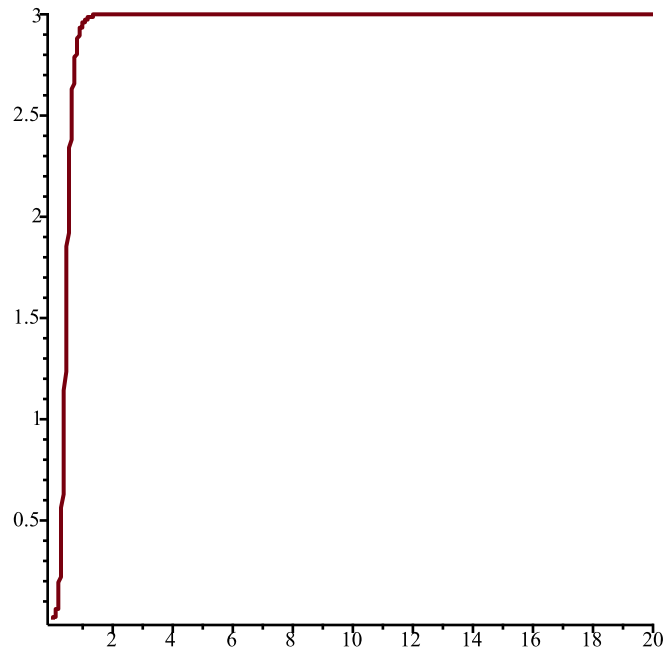
> #HW 16 - Alan Ho
> #OK to post
>
> #1)
> read("M15.txt")
> Orbk(2, z, z[1] * (5/3 - z[2]), [0.5, 1], 1000, 1020)
[0.6666666667, 0.6666666667, 0.6666666667, 0.6666666667, 0.6666666667, 0.6666666667,
0.6666666667, 0.6666666667, 0.6666666667, 0.6666666667, 0.6666666667,
0.6666666667, 0.6666666667, 0.6666666667, 0.6666666667, 0.6666666667,
0.6666666667, 0.6666666667, 0.6666666667, 0.6666666667, 0.6666666667]
> # 2/3 is a stable fixed point
> Orbk(2, z, z[1] * (2 - z[2]), [0.5, 1], 1000, 1020)
[0.9413502159, 0.9494058147, 1.005088261, 1.055939882, 1.050566984, 0.9917983909,
0.9416461375, 0.9493691509, 1.004768507, 1.055640790, 1.050606960, 0.9921503588,
0.9419406453, 0.9493345412, 1.004452292, 1.055343328, 1.050644631, 0.9924984606,
0.9422337423, 0.9493019455, 1.004139567]
> #there are no stable fixed points

```

```

> #4iii)
> #4a)
> plot(Disl(y * (3 - y) * (5 - y), y, 0.01, 0.01, 20));

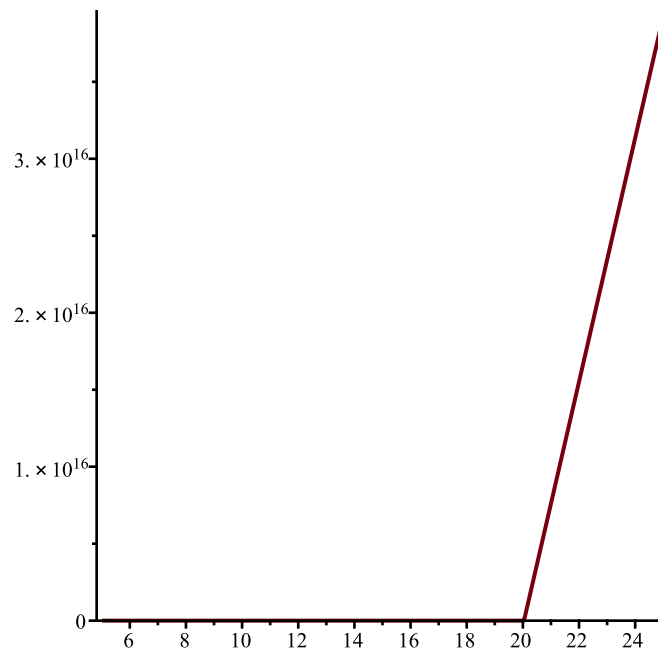
```



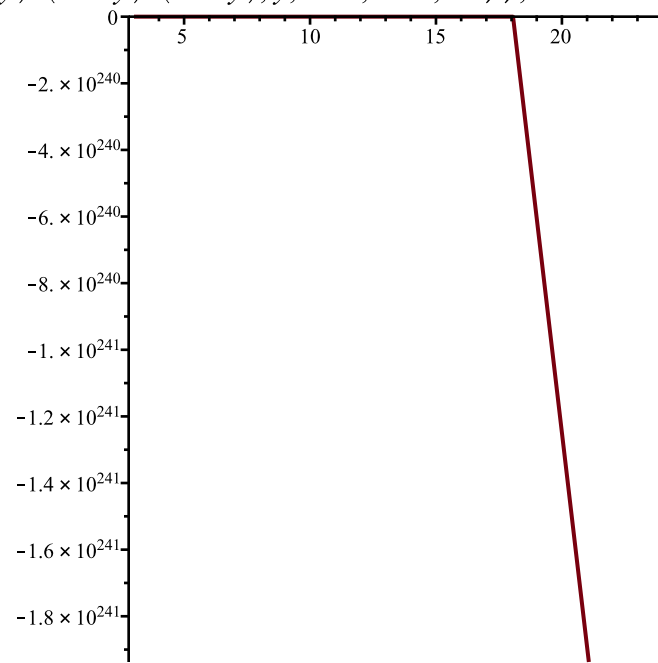
```

> plot(Disl(y * (3 - y) * (5 - y), y, 0.01, 5.01, 20));

```

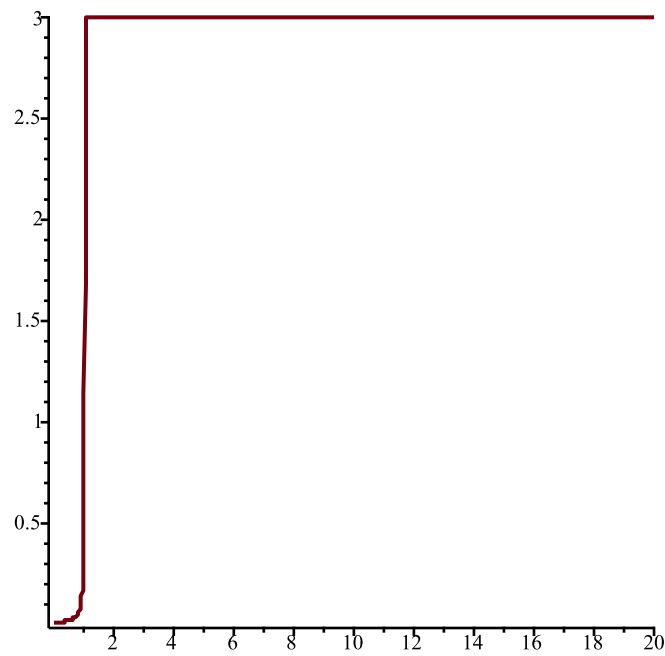


> `plot(Disl(y2 · (3 - y) · (5 - y) · (7 - y), y, 0.01, 3.01, 20));`

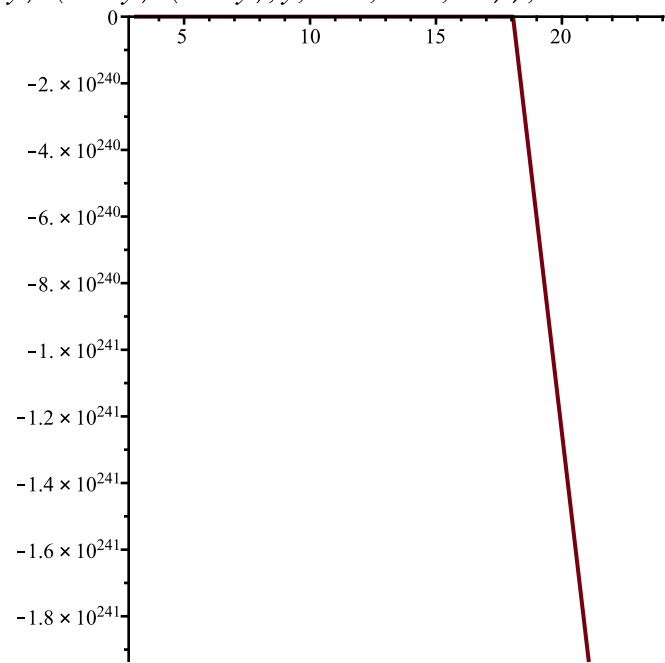


> # 4b)

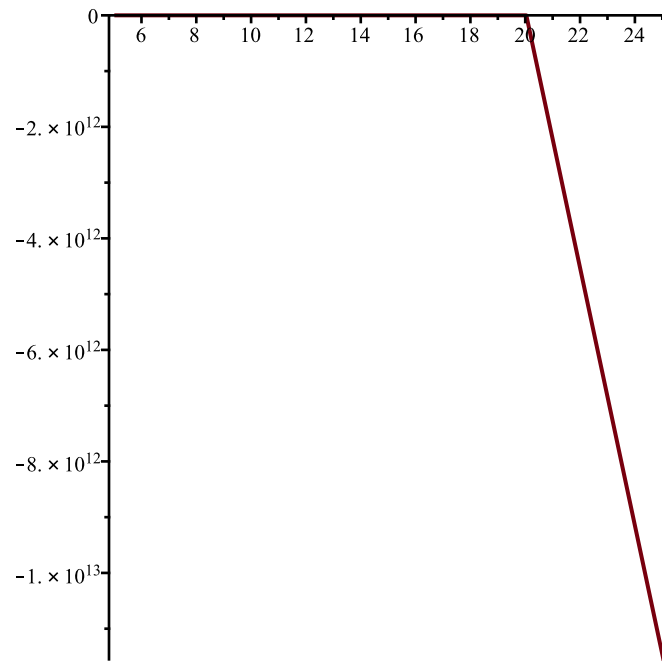
> `plot(Disl(y2 · (3 - y) · (5 - y) · (7 - y), y, 0.01, 0.01, 20));`



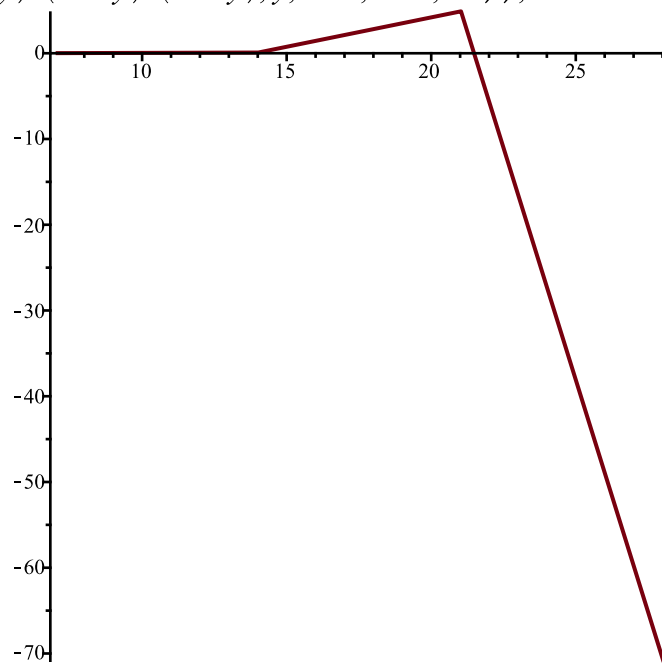
>  $plot(Dis1(y^2 \cdot (3-y) \cdot (5-y) \cdot (7-y), y, 0.01, 3.01, 20));$



>  $plot(Dis1(y^2 \cdot (3-y) \cdot (5-y) \cdot (7-y), y, 0.01, 5.01, 20));$



> `plot(Dis1(y2 · (3 - y) · (5 - y) · (7 - y), y, 0.01, 7.01, 20));`



>