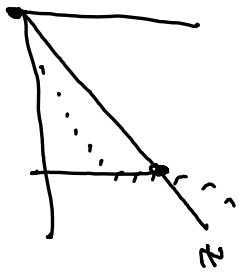


FINAL SIZE

$$Z = -\frac{1}{R_0} \log(1-Z)$$

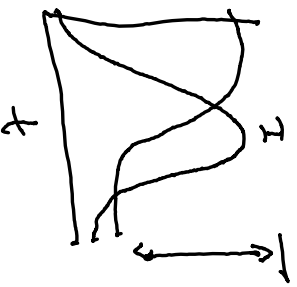
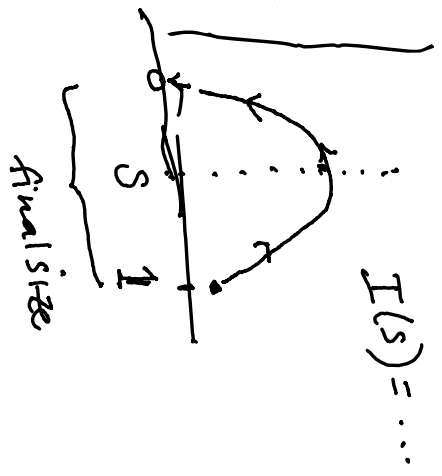
Lambert W



bisection  
Newton's method  
Brent's method

$$-\frac{1}{R_0} \log(1-Z) - Z = 0$$

SYMPY



prevalence:  $I(t)$   
incidence:  $R SI(t)$

3 Feb 2021

logistics/HW

Final size / herd immunity

data!

Euler-Lotka: estimating  $R_0$

most info for today is in the Python notebook