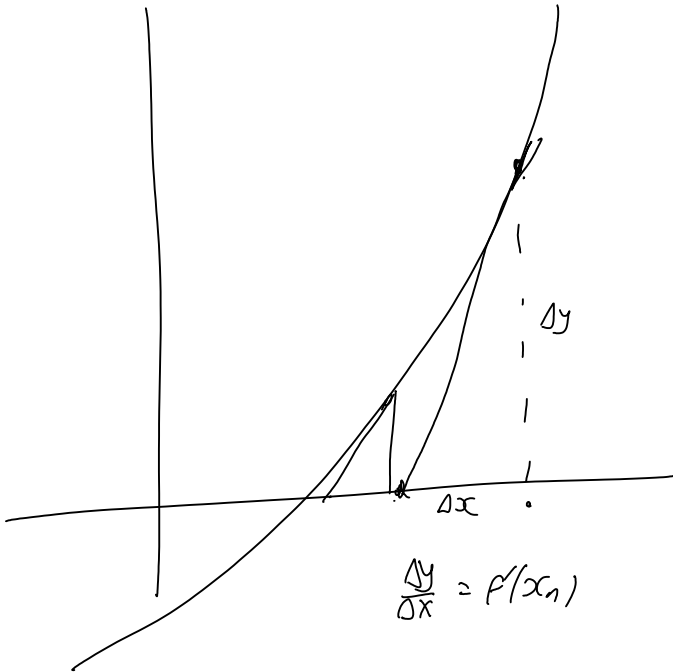


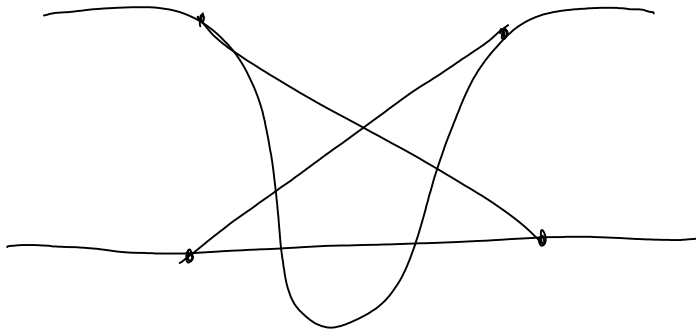
# Newton's Method

September-10-09  
5:00 PM



$x_0$  - guess

$$x_{n+1} = x_n - \frac{f(x_n)}{f'(x_n)}$$



$$\log(2) = x \quad e^x - 2 = 0$$

"   
 f(x)

$$x_{n+1} = x_n - \frac{e^{x_n} - 2}{e^{x_n}} = x_n - 1 + \frac{2}{e^{x_n}}$$

$$x_0 = 0.8$$