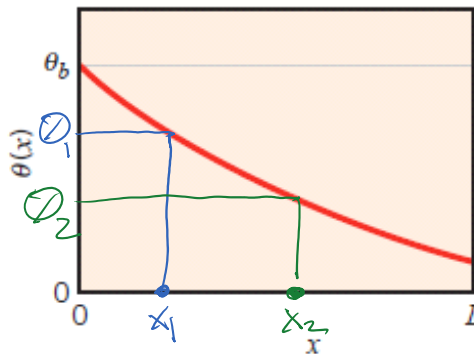
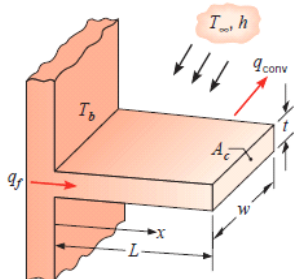


# Root Finding

Tuesday, June 23, 2020 3:32 PM

$$\theta(x) = \theta_b \left( \frac{\cosh(m(L-x)) + \left(\frac{h}{mk}\right) \sinh(m(L-x))}{\cosh(mL) + \left(\frac{h}{mk}\right) \sinh(mL)} \right)$$

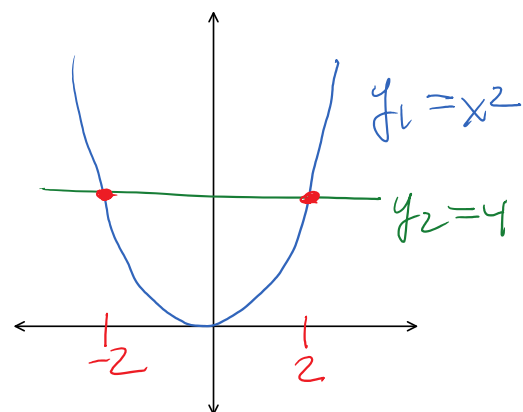


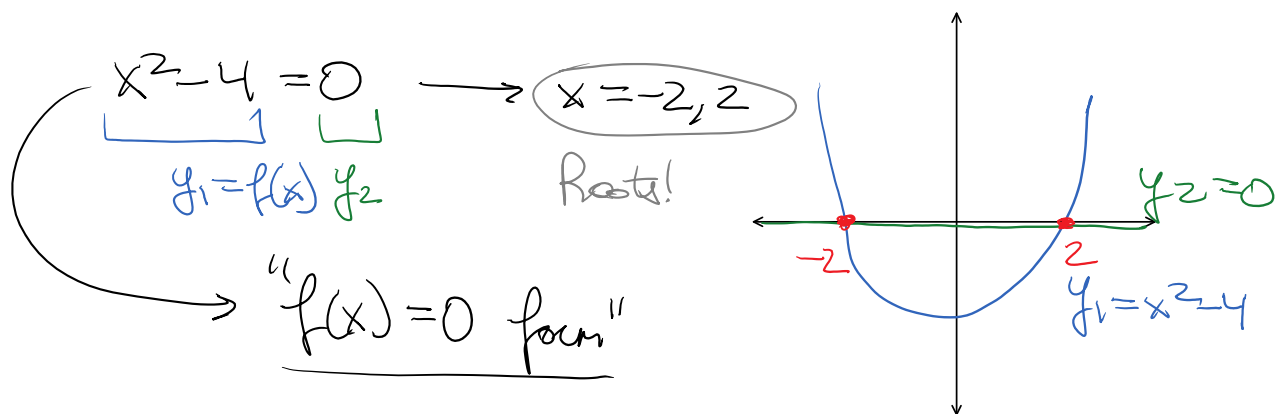
(Taken straight from the Heat Transfer textbook!)

$$\underbrace{x^2 = 4}_{f_1} \quad \underbrace{\phantom{x^2 = 4}}_{f_2}$$

$$\rightarrow x = -2, 2$$

intercepts





$x^2 + x = 6$   $\rightarrow$   $x^2 + x - 6 = 0$   
 $f(x) \rightarrow x = 2, -3$

~~$f(x) = x^2 + x$~~   
 ~~$\rightarrow x = 0, -1$~~