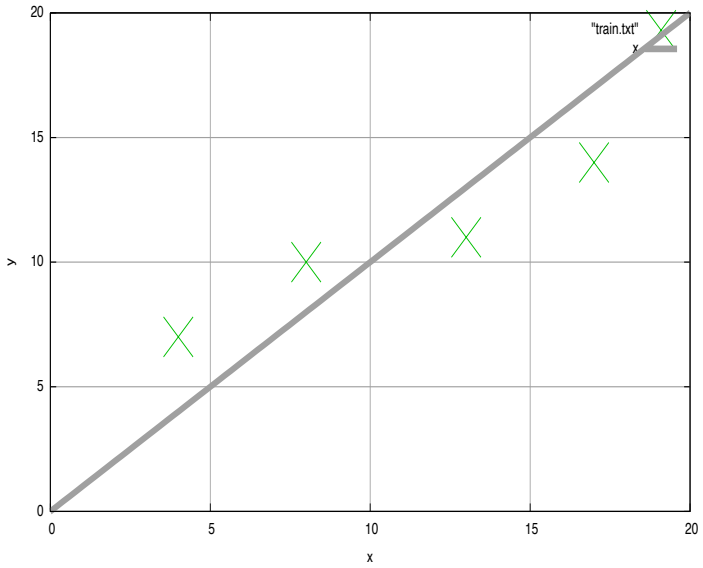
Hypothesis vs. Cost function (θ1=1)

θ0=0, θ1=1, (x,y)=(4,7), (8,10), (13,11)

Hypothesis:

$$h(x) = x$$



Cost function:

$$J(\theta_0,\theta_1) = \frac{1}{2m}\sum_{i=1}^{m}(h_\theta(x^{(i)}) - y^{(i)})^2$$

$$J(0,1) = \frac{1}{2m}((4-7)^2 + (8-10)^2 + (13-11)^2)$$

$$J(0,1) = \frac{1}{2*3}(9+4+4) = \frac{17}{6} = 2.83$$