

HW2Q2

1. $\frac{d}{dx} \|Ax - y\|_2^2 + \frac{d}{dx} \gamma \|x\|_2^2$

$$2A^T(Ax - y) + 2\gamma x$$

2. $\hat{x} = (A^T A + \gamma I)^{-1} A^T y$