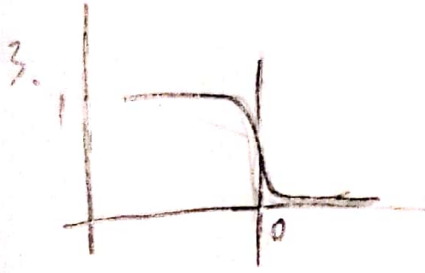


Section 7.

1. Large z means the predicted value and y has the similar direction,
small z means the opposite direction.
2.
$$L = \frac{1}{2} \text{Tr} \{ (X\theta - Y)^T (X\theta - Y) \}.$$



4.

