INF 5860 - Exercises on logistic regression

- 1. For logistic regression, what is the equation for the decision boundary?
 - a. $h_{\theta}(x) = \frac{1}{1 + \exp^{-\theta^T x}} = 0$
 - b. $h_{\theta}(x) = \theta^T x = 0$
 - c. $h_{\theta}(x) = \theta^T x = 0.5$
- 2. If y(i)=1, what should $h\theta(x(i))$ ideally be?
 - a. 0.5
 - b. 1
 - c. 0
- 3. For regularized linear regression, why is there no penalty on θ 0?