

Problems for Lecture 10

12.

$$\hat{x} = [4, 1]^T$$

$$e_1 = 1, e_2 = 3, e_3 = 5, e_4 = 3, E = 44$$

17.

$$\hat{x} = 9$$

$$p = (9, 9, 9, 9) \quad e = (-9, -1, -, 1, 11) \text{ and } e \cdot a = 0 \text{ so is perpendicular to } a \quad ||e|| = 3\sqrt{51}$$