Least Squares: Find vector b such that Obo; Obi; Obi; Obe are all 0 Compute gradient of L with respect 2 = yy - Zy xb + b x xb } = 0 - Zy x Pb x x x = 0 - Zy x x Pb x x x = 0 - Zy x x Pb x x x = 0 - Zy x x Pb x x x = 0 - Zy x x Pb x x x = 0 - Zy x x Pb x x x = 0 - Zy x x Pb x x x = 0 - Zy x x Pb x x x = 0 - Zy x x Pb x x x = 0 - Zy x x Pb x x x = 0 - Find b such that $\frac{\partial L}{\partial h} = 0$ → -2y X + 25 X X =0 GXTX = YX (XX) $\hat{b} = X^Ty = 0$ Normal R) can be inverted: Equations 6 = (xx) xy