Size
$$(n, k+1)$$

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All is for β

The sample i

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(M-XB) - (1AT 21.7)

$$(g^{7}-\hat{g}^{7} \times 7) (y-x\hat{\beta})$$

$$(g^{7}-\hat{g}^{7} \times 7) (y-x\hat{\beta})$$

$$(1.1)$$

$$(y^{7} \times \beta - \beta^{7} \times 7y + \hat{\beta}^{7} \times 7x\hat{\beta})$$

$$(m) (n, pri) (pri) (p$$

$$\frac{\partial y^7 y}{\partial \beta} = 0$$

3+0:
$$\frac{\partial + \partial}{\partial \beta} \left(\frac{\partial (-2y^7 x \beta)}{\partial \beta} \right) = -2x^7 y$$

$$\left(\frac{y^7 x \beta}{y^7} \right)^{\frac{1}{2}} = \frac{y^7 x \beta}{y^7} = \beta^7 x^7 y$$

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Full:
$$\partial V = \partial \overline{V} = G$$

$$= -2 \frac{\partial V \times \beta}{\partial \beta}$$

$$y^{T}\chi = \alpha^{T}$$

$$G = \chi^{T}y$$

x x = A

Pare 2:
$$\frac{\partial \beta^7 (x^7 x) \beta}{\partial \beta} = 2x^7 x \beta$$

 $(\chi^{\tau}\chi)^{-1}$

Pare 2:
$$\frac{\partial V^T A V}{\partial V} = 2 A U$$