

Propurbos of Lemmatator

(1) 
$$(A_1, B_2) = -10, A_2$$

(1)  $(A_1, B_2) = (A_1, B_1 + B_1 A_2, B_2)$ 

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(2)  $(A_1, B_2) = (A_1, B_1 + B_2, A_2)$ 

(3)  $(A_1, B_2) = (A_1, B_1 + B_2, A_2)$ 

(4)  $(A_1, B_2) = (A_1, B_2) = (A_1, B_2)$ 

(5)  $(A_1, B_2) = (A_1, B_2) = (A_1, B_2)$ 

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$$\beta = \begin{bmatrix} \beta_0 \\ \beta_1 \end{bmatrix}$$

$$Y = X\beta + E$$

$$L^{\beta} = E^{T}E = (Y - X\beta)^{T} LY - X\beta$$

$$2 L L \beta) = 0$$

$$-2 Y^{T}X\beta$$

$$2 [Y - X\beta]^{T} CY - X\beta] = \frac{2}{2\beta} (Y^{T}Y - Y^{T}X\beta - \beta^{T}X^{T}Y + \beta^{T}X^{T}X\beta)$$

$$= -2 Y^{T}X + \beta^{T} (X^{T}X + X^{T}X)$$

$$= -2 Y^{T}X + 2\beta^{T}X^{T}X = 0$$

$$\beta^{T}X^{T}X = Y^{T}X$$

$$X^{T}X\beta = X^{T}Y$$

 $\beta = [(x^Tx)^T x^T]Y$ 

d1.