

Multiply by X + X2 on both sides X, y = X, X, B, + X, X, B, + X, E, = (1) X2y=X2X1B,+X2X2B+X2E-11 [X, E = 0] As they are] => X, X, B, = X, Y -X, X, B, $\beta_1 = X_1 (Y - X_2 \beta_2) (X_1 X_1)$ X2X2-X2X, (X,X1) X, X2B2 $= \times_{2} \times_{1} (\times_{1} \times_{1}) \times_{1} \times_{1} \times_{1}$ X2 (T-P,) X2 = X2 (T-P,) y B= [x, (I-P,) X,] X, (I-P,)y - V

(V) f(V) are the amserers