

$$y_i = \beta_0 + \beta_1 x_{i1} + \dots + \beta_p x_{ip} + e_i$$

V.A.

\hat{y}_i

V.A.

ALL
POSSIBLE
SOLUTIONS
FOR
 $y_i = x_i \beta + e_i$
GIVEN β

$$y_{i1} = \hat{\beta}_0 + \hat{\beta}_1 x_{i1} + \dots + \hat{\beta}_p x_{ip} + e_{i1}$$

$$y_{ik} = \hat{\beta}_0 + \hat{\beta}_1 x_{i1} + \dots + \hat{\beta}_p x_{ip} + e_{ik}$$

$$E[y_i] = E[\beta_0 + \beta_1 x_{i1} + \dots + \beta_p x_{ip}] + E[e]$$

$$VAR[y_i] = E[\beta_0 + \beta_1 x_{i1} + \dots + \beta_p x_{ip}] + E[e]$$

