



Pattern means systematic once vandour.

- c) setup CI's for
 - 1) Slope

- 3) Prediction interval
- z) Intercopt

Bo= ig - Bx What is the standard econor for slope = S(Bi)

$$E_{5} = t_{4/2, n-2} \cdot S(\overline{\beta})$$

$$= t_{4/2, n-2} \cdot \sqrt{\frac{\hat{\sigma}^{2}}{5_{xx}}} \quad \hat{\sigma}^{2} = \frac{S_{5x}}{x - 2} \cdot \sqrt{\frac{n}{5_{xx}}}$$

$$= (\frac{1}{5_{xx}})^{n-2} \cdot \sqrt{\frac{\hat{\sigma}^{2}}{5_{xx}}} \quad \hat{\sigma}^{2} = \frac{S_{5x}}{x - 2} \cdot \sqrt{\frac{n}{5_{xx}}}$$

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