

Assignment

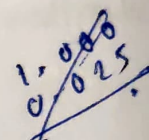
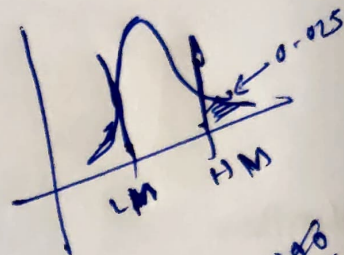
Q) Do the same for 80% CI

Sol:

$$\alpha = 1 - CI$$

$$= 1 - 0.8$$

$$\alpha = 0.2$$



$$\frac{1.0}{0.1} = \frac{1.025}{0.9}$$

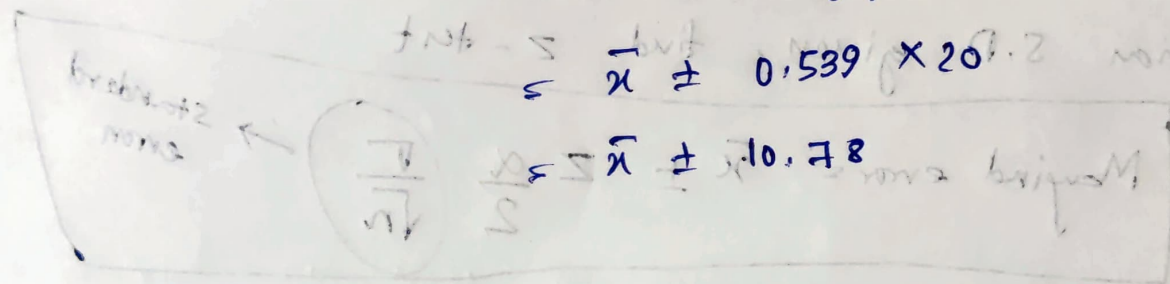
Marginal

$$\text{error} = \bar{x} \pm z_{\frac{\alpha}{2}} \cdot \frac{s}{\sqrt{n}}$$

$$= \bar{x} \pm z_{0.1} \times 20$$

$$= \bar{x} \pm 0.539 \times 20$$

$$= \bar{x} \pm 10.78$$



lower

$$\text{margin} = 520 - 10.78 = 509.22$$

upper

$$\text{margin} = 520 + 10.78 = 530.78$$

