

No
Date

مبارك حسن محمود
201900870

$$(2) \quad n = 35, \quad \bar{X} = 0.718, \quad S = 0.511$$

$$\alpha = 1 - 0.9$$

$$\alpha = 0.1$$

$$\frac{\alpha}{2} = 0.05$$

$$\frac{\alpha}{2} = 1 - 0.95 = 0.05$$

$$Z\left(\frac{\alpha}{2}\right) = 1.65$$

$$\bar{X} - Z\left(\frac{\alpha}{2}\right) * \left(\frac{S}{\sqrt{n}}\right) < M < \bar{X} + Z\left(\frac{\alpha}{2}\right) * \left(\frac{S}{\sqrt{n}}\right)$$

$$0.718 - 1.65 * \left(\frac{0.511}{\sqrt{35}}\right) < M < 0.718 + 1.65 * \left(\frac{0.511}{\sqrt{35}}\right)$$

$$0.5754 < M < 0.86051$$

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