

每位使用
時間，
花費時

注意: $1 - \alpha = 0.90$

$1 - \alpha = 0.90$, $\alpha = 0.10$ CHAPTER 6
估計

6. (1) 是, 高自散度的

$$(2) X \sim B(10, 0.5), P(X \geq 6) = 1 - P(X \leq 5) = 1 - 0.623 = 0.377$$

$$(3) P(X \leq 4) = 0.377$$

$$34. (1) P(X=0) = \frac{e^{-0.5} 0.5^0}{0!} = e^{-0.5} = 0.6065$$

$$(2) P(X \geq 1) = 1 - P(X=0) = 1 - e^{-0.5} = 0.3935$$

$$35. (1) P(X=0) = \frac{e^{-3} 3^0}{0!} = 0.0498$$

$$(2) P(X=2) = \frac{e^{-3} 3^2}{2!} = 0.224$$

$$39. P(X > 8) = P\left(Z > \frac{8.5 - 3.5}{3.5}\right) = P(Z > 0.86) = 1 - 0.806 = 0.194$$

$$8. (1) P(X > 15) = P\left(\frac{X - 13.2}{5.3} > \frac{15 - 13.2}{5.3}\right) \\ = P(Z > 0.34) = 1 - P(Z \leq 0.34) \\ = 1 - 0.6331$$

$$(2) P(X > 15) P\left(\frac{\bar{X} - 13.2}{\frac{5.3}{\sqrt{16}}} > \frac{15 - 13.2}{\frac{5.3}{\sqrt{16}}}\right) = P(Z > 1.36) = 1 - P(Z \leq 1.36) \\ = 1 - 0.9131 \\ = 0.0869$$