

A106270043 企三甲陳毅

34. 令 X 為一個月內

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

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

6. (1) 是離散的

$$(2) X \sim B(10, 0.5) = 1 - F(6) = 1 - 0.623 = 0.377$$

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

39. 令 X 為上網時間長度, 則 $X \sim N(5, 3.5)$

$$P(X > 8) = P\left(Z > \frac{8-5}{\sqrt{3.5}}\right) = P(Z > 0.86) = 1 - 0.8051 = 0.1949$$



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$$(1) t_{0.025}(10) = 2.228$$

$$(2) t_{0.95}(8) = -1.86$$

$$(3) \chi^2_{0.05}(12) = 21.03$$

$$(4) \chi^2_{\alpha}(15) = 7.16, \alpha = 0.95$$

$$(5) \chi^2_{0.95}(10) = 3.94$$

$$(6) F_{0.05}(5,8) = 3.69$$

$$(7) F_{0.95}(6,7) = 0.238$$

$$(8) F_{\alpha}(b,b) = 4.28, \alpha = 0.05$$