No.

Date

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第4章 6. (1) 是，離散

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

(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個月 => 一次 1個月 => 0.5次

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

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 令X為上網時間長度 $X \sim N(5.3^2)$

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

第8章 8. (1) $P(X>15) = P(\frac{X-13.2}{5.3} > \frac{15-13.2}{5.3})$

$= P(Z > 0.34) = 1 - P(Z \leq 0.34) = 1 - 0.6331 = 0.3669$

(2) $\bar{X} \sim N(13.2, \frac{5.3^2}{16}) \Rightarrow \frac{\bar{X}-13.2}{\frac{5.3}{\sqrt{16}}} \sim N(0,1)$

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

$= 1 - 0.9131 = 0.0869$