A107270050 陳亭君.

6、(1) 是，離散型

(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、$P(X=x) = \frac{e^{-k} \cdot k^x}{x!}$，$P=(X=k) = \sum_{x=0}^{k} \frac{\mu^k}{x!} e^x$

→1個月1次

1個月0.5次

$X \sim P_o(0.5)$

(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) $P(X=2) = 0.4232 - 0.1991 = 0.2241$ #

(累積到小於等於2 − 累積到1)

39、$X \sim N(5, 3.5)^2$

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

$= 1 - 0.8051 = 0.1949$ #