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M T W T F S S

⑥ 1. 離散

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

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

㉞

令：X為一个月無預警 $X \sim P_o(0.5)$

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

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

$P(X=x) = \frac{e^{-k} \cdot k^x}{x!}$

$P(X=k) = \sum_x^k \frac{M^x}{x!} e^x$

㉟ 令X為100呎雲

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

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

$= 0.4232 - 0.1991$

$= 0.2241$

* $P(X=2) = P(X \leq 2) - P(X \leq 1)$

㊱ 令X為上網時間長度 $X \sim N(5, 3.5^2)$

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

$= P(Z > 0.86)$

$= 1 - 0.8051$

$= 0.1949$