ex35.

令 x 為 10 吋寬、300吋長的玻璃氣泡瑕疵個數，則 $x \sim P_o(3)$：

(1) $P(x=0) = \dfrac{e^{-3} \, 3^0}{0!} = 0.0498$
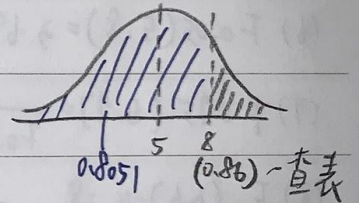
(2) $P(x=2) = \dfrac{e^{-3} \, 3^2}{2!} = 0.224$

$\rightarrow P(x=2) = P(x \leq 2) - P(x \leq 1)$

$\qquad = 0.4232 - 0.1991 = 0.2241$ #

ex39.

令 x 為上網時間長度，則 $x \sim N(5, 3.5^2)$：

$P(x>8) = P\left(z > \dfrac{8-5}{3.5}\right) = P(z > 0.86) = 1 - 0.8051 = 0.1949$

0.8051　(0.86) ← 查表

$P = 28$ 習 1.

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

(2) $t_{0.95}(8) = -t_{0.05}(8) = -1.86$

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

(4) $\chi^2_{\alpha}(15) = 7.26 \quad \alpha = 0.95$

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

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

(7) $F_{0.95}(6,7) = \dfrac{1}{F_{0.05}(8,5)} = \dfrac{1}{3.87}$

(8) $F_{\alpha}(6,6) = 4.28 \quad \alpha = 0.05$