[1]

$$a \cdot s^2$$
 分件 家食函數: $f_{\mathbf{z}}(\mathbf{x}) = e^{-\frac{1}{2}\mathbf{x}^2}$ 元

[3]

(b)
$$p(\bar{\chi}_A \le 64) = p(\bar{\chi}_A - 64) \stackrel{+}{=} \le (-\frac{1}{3})$$

= $p(z \le -\frac{1}{3}) = 0.04476$.

(c)
$$P(\bar{X}_A \leq \bar{X}_2) - P(\bar{X}_A > \chi_1) = 0.9$$

 $= P(\bar{X}_A - 6t) = \frac{1}{3} \leq (\chi_2 - 6t) = \frac{1}{3} - P(\bar{X}_A - 6t) = \frac{1}{3} \times (\chi_1 - 6t) = \frac{1}{3}$
 $= P(\bar{X}_2 \leq (\chi_2 - 6t) = \frac{1}{3}) - P(\bar{X}_2 \leq (\chi_1 - 6t) = \frac{1}{3})$