

6. (1) 是, 离散型

$$(2) X \sim B(10, 0.5), P(X \geq 6) = 1 - P(X \leq 5) = 1 - 0.623 = 0.377$$

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

$$34. (1) P(X=0) = \frac{e^{-0.5} 0.5^0}{0!} = e^{-0.5} = 0.6065$$

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

$$35. (1) P(X=0) = \frac{e^{-3.3} 3.3^0}{0!} = 0.0498$$

$$(2) P(X=2) = \frac{e^{-3.3} 3.3^2}{2!} = 0.224$$

$$39. P(X > 8) = P(Z > \frac{8-5}{2.5}) = P(Z > 1.2) = 1 - 0.8849 = 0.1151$$

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

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

$$(2) P(\bar{X} > 15) = P\left\{\frac{\bar{X}-13.2}{\frac{5.3}{\sqrt{16}}} > \frac{15-13.2}{\frac{5.3}{\sqrt{16}}}\right\} = P(Z > 1.36) = 1 - P(Z \leq 1.36)$$

$$= 1 - 0.9131 = 0.0869$$

→