$$E[K_{100}] = 100(\frac{3}{4}) = 75$$

(b)
$$Var[K_{100}] = 100(\frac{3}{4})(\frac{1}{4}) = 18.75$$

 $O_{K/00} = \sqrt{18.75} = 4.330$

(c)
$$Z = \frac{18-75}{4.3301} z - 13.1636$$

$$P[Z_{7}^{-1}]_{3.1650} = 0$$
(d) $Z_{2} = \frac{24 - 75}{4.3301} = -11.7780 \quad P[X(-11.7780)] = 0$

$$\frac{2^{2}}{4.3301} = \frac{16-75}{4.3301} = -13.6256 \quad P[K(-13.6256)] \approx 0$$