$$P(x>\alpha) \leq \frac{Ex}{\alpha}$$

1)
$$p(x = 400) = \frac{100}{400} = 0,75$$

2)
$$P(x \le 500) = 1 - P(x \ge 500) = \frac{2}{5} = 0,4$$

 $P(x=\alpha) = \frac{Ex^2}{\alpha^2}$

N3

$$\alpha = 50$$

$$Fx = n p = 1600 \cdot 0, 3 = 480$$

$$D(x) = np(1-p) = 1600 \cdot 0, 3 \cdot 0, 7 = 336$$

$$P(1480-x|<50) > 1-\frac{336}{480} = 0,8656$$

$$\bar{X} = \frac{9+5+7+7+4+10}{6} = 7$$

$$P(\bar{X} - \frac{6^2}{\sqrt{n}}) \times \frac{1}{2} \le \mu \le \bar{X} + \chi_{1/2} = 1 - \lambda = 0,99$$

$$\lambda = 0,01$$

6 = VID = 1