

$$6) P(|X+2| > x) = 0,1 \quad X \sim N(-2, 3)$$

$$1 - P(|X+2| > x) = 0,1$$

$$P(|X+2| > x) = 0,9$$

$$P\left(-\frac{x}{3} < Y < \frac{x}{3}\right) = 0,9$$

$$\Phi\left(\frac{x}{3}\right) - \Phi\left(-\frac{x}{3}\right) = 0,9$$

$$\Phi\left(\frac{x}{3}\right) - 1 + \Phi\left(\frac{x}{3}\right) = 0,9$$

$$2\Phi\left(\frac{x}{3}\right) = 1,9$$

$$\Phi\left(\frac{x}{3}\right) = 0,95$$

$$\frac{x}{3} = 1,645 \times \approx 4,9$$

