

2)  $m_x = 50$

$\sigma_x = 10\sqrt{3}$

$m_x = \frac{a+b}{2}$

$\sigma_x = \frac{b-a}{\sqrt{12}} = \frac{b-a}{2\sqrt{3}}$

$$\left. \begin{array}{l} 2m_x = b + a \\ 2\sqrt{3}\sigma_x = b - a \end{array} \right\} \begin{array}{l} b = m_x + \sqrt{3}\sigma_x \\ a = m_x - \sqrt{3}\sigma_x \end{array}$$

$a = 50 - \sqrt{3} \cdot \sqrt{3} \cdot 10 = 20$

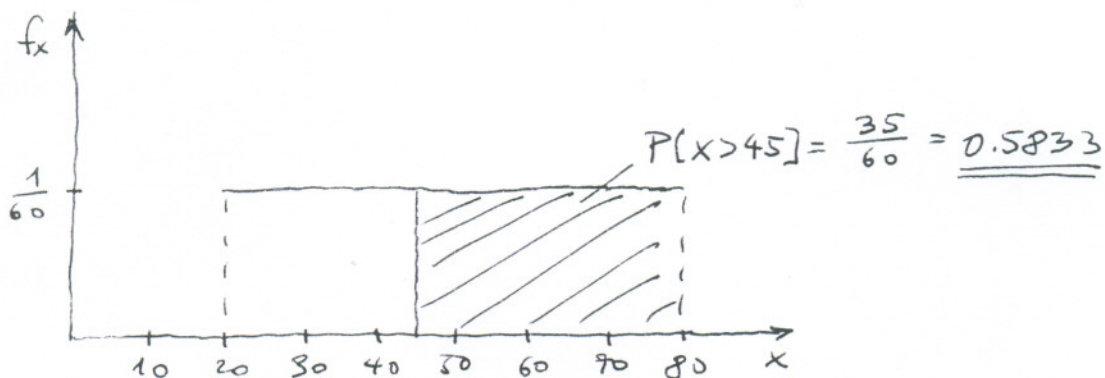
$b = 50 + \sqrt{3} \cdot \sqrt{3} \cdot 10 = 80$

GOSTOTA VERJETNOSTI

$$f_x(x) = \begin{cases} \frac{1}{b-a} = \frac{1}{60} \\ 0 \end{cases}$$

ZA  $20 \leq x \leq 80$ 

DRUGJE



$$P[X > 45] = \int_{45}^{80} \frac{1}{60} dx = \frac{1}{60} x \Big|_{45}^{80} = \frac{1}{60} (80 - 45) = \frac{35}{60} = 0.5833$$