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B: bene fici

a)
$$P(X < B) = P\left(\frac{X - M_x}{2} < \frac{B_{100} - 100}{40/1000}\right) = 0.8$$

$$P(50 < X < \frac{4000}{50}) = P(\frac{50-100}{10/1405} < Z < \frac{80-100}{10/1405}) = He fem segon; els$$

No sobrarà diners

$$P2 \frac{S_n}{n} = 0,5 \qquad \mu = 0,55 \qquad \sigma = \sqrt{0,55 \cdot 0,45} \approx 0,4975$$

$$P(Z < \frac{S_n/n - \mu}{o/m}) = 0,9 \Rightarrow \frac{0.5 - 0.55}{0.4975/m} = 1.2816$$

$$n = \left(\frac{4,2816 \cdot 0,4975}{-0.05}\right)^2 - 163$$

$$f(x) = \begin{cases} 4/2 \cdot e^{-\frac{x}{2}} & x > 0 \\ 0 & x < 0 \end{cases} \qquad \begin{array}{c} \mu = 2 \\ \sigma = \sqrt{v_{or}} = 2 \end{cases}$$

$$Pq = \alpha \cdot \theta = 50$$

$$\sigma = \sqrt{\text{var}} = \sqrt{\alpha \theta^2} = 22,36$$

$$P(X > \frac{2190}{n}) = P(Z > \frac{2190}{40} - 50) = 1 - P(Z < 1,344) = 1 - 0,9699 = 0,0901)$$