

Predmet: Pravděpodobnost a statistika 1

Ukol: 5.

Verze: 1.

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Harddisk

vypocet lambdy:

$$4 = \frac{1}{\lambda}$$

$$\lambda = \frac{1}{4}$$

a)

$$F_x(x) = 1 - e^{-\lambda x}$$

$$F_x(3) = 1 - e^{-\frac{3}{4}}$$

$$\underline{\underline{F_x(3) = 0.5276}}$$

b)

$$F_x(x) = 1 - e^{-\lambda x}$$

$$F_x(10) = 1 - e^{-\frac{10}{4}}$$

$$1 - F_x(10) = e^{-\frac{10}{4}}$$

$$\underline{\underline{1 - F_x(10) = 0.082085}}$$

c)

$$F_x(x) = 1 - e^{-\lambda x}$$

$$F_x(10) = 1 - e^{-\frac{10}{4}}$$

$$1 - e^{-\frac{1}{4} * x} = .1$$

$$\underline{\underline{\text{po } 0.421 \text{ roku}}}$$