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$$1. E(X) = 500 \text{ or } E(X) = \frac{1}{\lambda}$$

$$\text{donc } \frac{1}{\lambda} = 500 \text{ soit } \lambda = \frac{1}{500} = \mathbf{0,002}.$$

$$2. P(X \leq 5) = 1 - e^{-0,002 \times 5} = 1 - e^{-0,01}.$$