

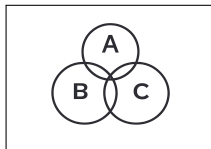
21

Discrete Distribution Poisson Variable

C

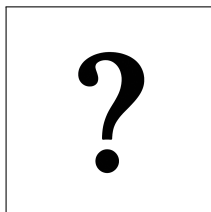


$$\lambda = 1$$



$$P(X = k) = e^{-\lambda} \frac{\lambda^k}{k!}$$

$$P(X = 0) = e^{-1} \frac{1^0}{0!} = e^{-1} \approx \boxed{0.37}$$

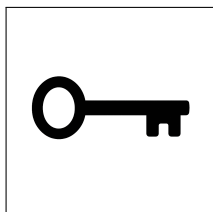


$$\lambda = 15$$

21

Discrete Distribution Poisson Variable

C



$$P(X = 0) = e^{-\lambda} \frac{\lambda^0}{0!} = e^{-15} = e^{-15} \approx \boxed{3.06 \times 10^{-7}}$$