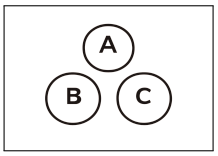
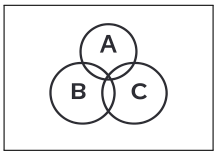
# 21 Discrete Distribution Poisson Variable A

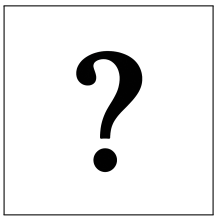



$\lambda = 1$




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

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




$\lambda = 4$

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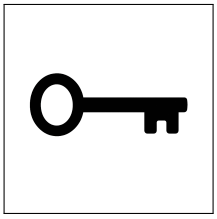

$$P(X = 0) = e^{-4}\frac{4^0}{0!} = e^{-4} \approx \boxed{0.018}$$