1. Write a pois.prob() function that computes P(X = x), $P(X \neq x)$, P(X < x), $P(X \leq x)$, P(X > x), and $P(X \geq x)$. Enable the user to specify the rate parameter λ .

2. Write a beta.prob() function that computes P(X=x), $P(X\neq x)$, P(X< x), $P(X\leq x)$, P(X>x), and $P(X\geq x)$ for a beta distribution. Enable the user to specify the shape parameters α and β .