

4.12 Poisson distribution

4.12.1 Compute P(X = a)

Consider $X \sim \text{Po}(5)$. Suppose you want to know $\mathbf{P}(X=6)$.

Press , select Probability > Distributions > Poisson Pdf and fill the parameters as follows:

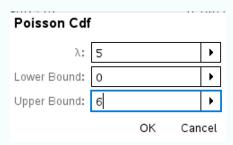


Press enter. The result should be 0.146 (rounded).

4.12.2 Compute $P(X \le a)$

Consider $X \sim \text{Po}(5)$. Suppose you want to know $\mathbf{P}(X \leq 6)$.

Press , select Probability > Distributions > Poisson Cdf and fill the parameters as follows:



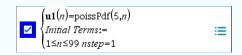
Press enter . The result should be 0.762 (rounded).

4.12.3 Graph a Poisson distribution

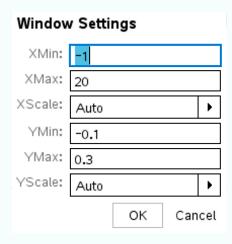
Consider $X \sim Po(5)$. Suppose you want to graph it.

- ① Create a new document and select Add Graphs.
- ② Press and select Graph Entry/Edit > Sequence > Sequence. Enter the parameters as follows:





3 Choose a proper window:



4 Press enter . The following should be displayed:

