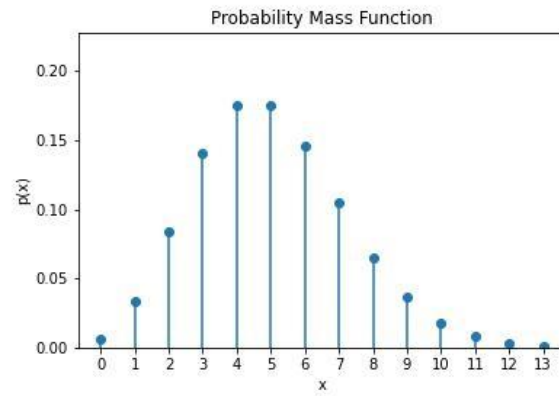




1

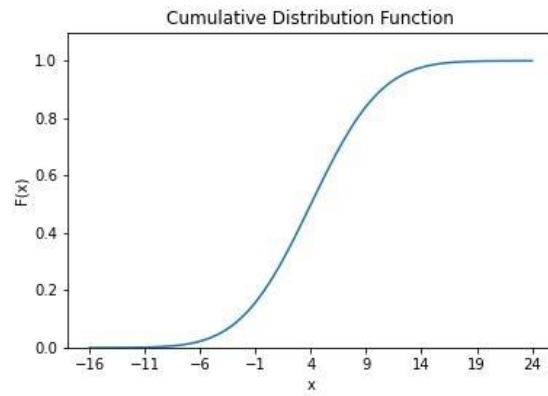
Select the one-parameter distribution below that best fits the graph. (2 Points)



- ☐ General Discrete
- ☐ Discrete Uniform
- ☐ Bernoulli
- ☐ Binomial
- ☒ Poisson
- ☐ Continuous Uniform
- ☐ Normal
- ☐ Exponential

2

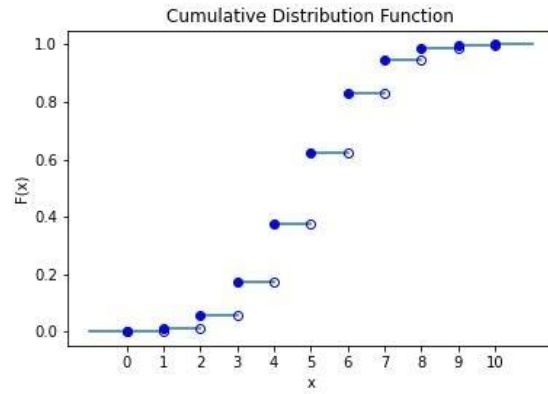
Select the two-parameter distribution below that best fits the graph. (2 Points)



- ☐ General Discrete
- ☐ Discrete Uniform
- ☐ Bernoulli
- ☐ Binomial
- ☐ Poisson
- ☐ Continuous Uniform
- ☒ Normal
- ☐ Exponential

3

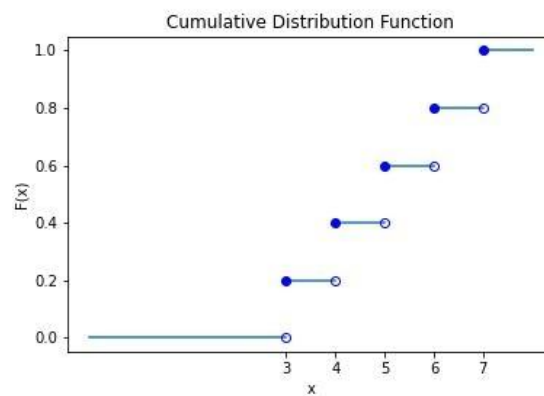
Select the two-parameter distribution below that best fits the graph. (2 Points)



- ☐ General Discrete
- ☐ Discrete Uniform
- ☐ Bernoulli
- ☒ Binomial
- ☐ Poisson
- ☐ Continuous Uniform
- ☐ Normal
- ☐ Exponential

4

Select the two-parameter distribution below that best fits the graph. (2 Points)

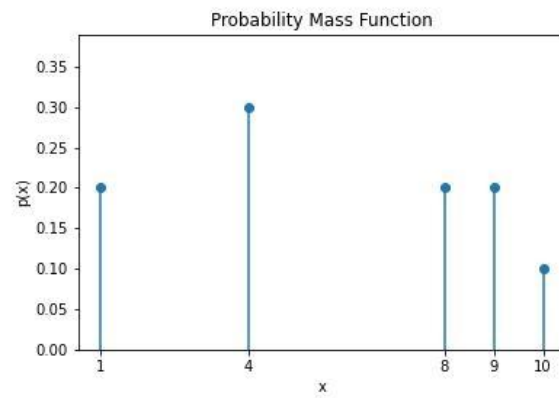


- ☐ General Discrete
- ☒ Discrete Uniform
- ☐ Bernoulli
- ☐ Binomial
- ☐ Poisson
- ☐ Continuous Uniform
- ☐ Normal
- ☐ Exponential

5

Select the distribution below that best fits the graph.

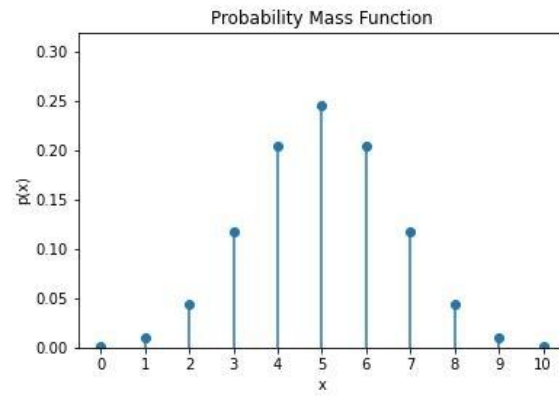
(2 Points)



- ☒ General Discrete
- ☐ Discrete Uniform
- ☐ Bernoulli
- ☐ Binomial
- ☐ Poisson
- ☐ Continuous Uniform
- ☐ Normal
- ☐ Exponential

6

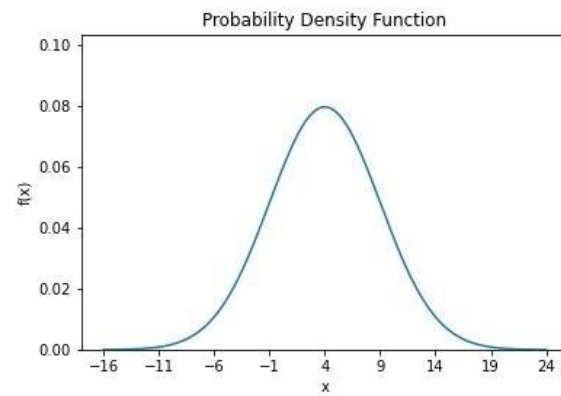
Given the graph of the PMF of X , what is the probability that random variable X is between 4 and 5 (included)? i.e. $P(4 \leq X \leq 5)$. Select the best answer.
(2 Points)



- ☐ 0
- ☐ 0.2
- ☐ 0.25
- ☒ 0.45
- ☐ 1

7

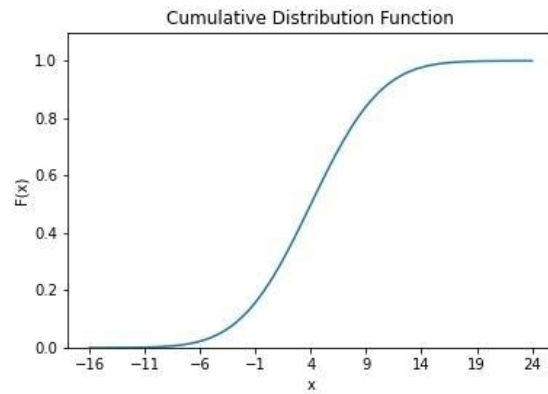
Given the graph of the PDF of X , what is the probability that random variable X is less than or equal to 4.0? Select the best answer. (2 Points)



- ☐ 0
- ☐ 0.08
- ☒ 0.5
- ☐ 1

8

Given the graph of the CDF of X , the probability that random variable X is greater than -1 is approximately: (2 Points)



☐ 0.18

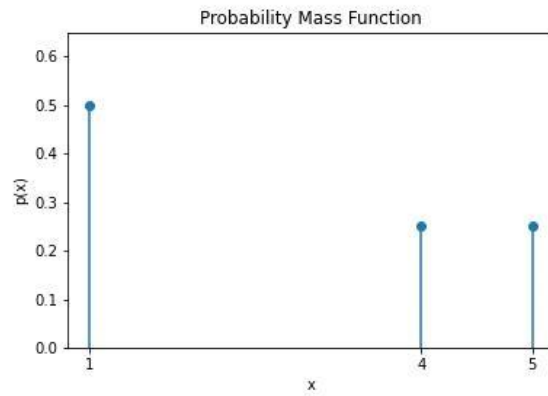
☐ 0.02

☒ 0.82

☐ 0.95

9

What is the expected value of random variable X given the graph of its PMF? (2 Points)



- ☐ 1
- ☐ 1.5
- ☒ 2.75
- ☐ 4.25

10

The sample space of an exponential random variable is (2 Points)

- ☒ $[0, \infty)$
- ☐ $(-\infty, \infty)$
- ☐ $[0, 1]$
- ☐ $\{0, 1\}$