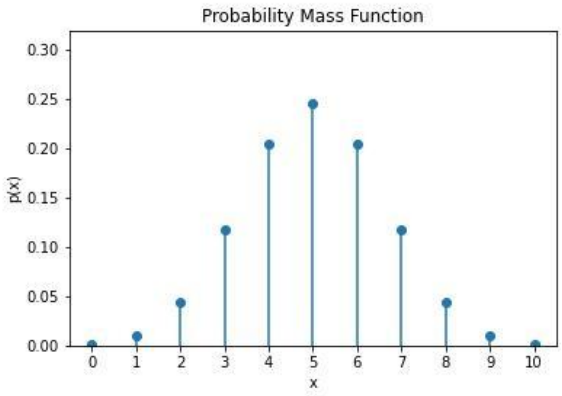
1

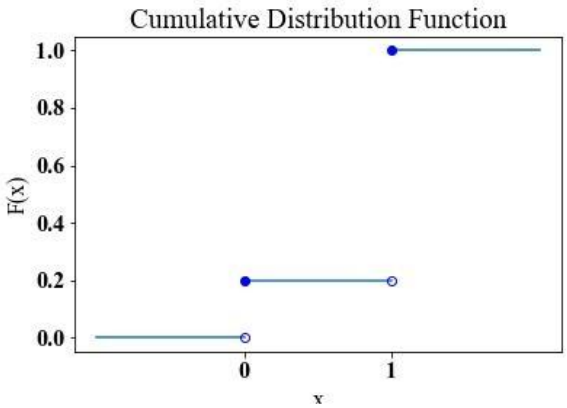
Select the two-parameter distribution below that best fits the graph. (2 Points)



- ◯ General Discrete
- ◯ Discrete Uniform
- ◯ Bernoulli
- (X) Binomial
- ◯ Poisson
- ◯ Continuous Uniform
- ◯ Normal
- ◯ Exponential

2

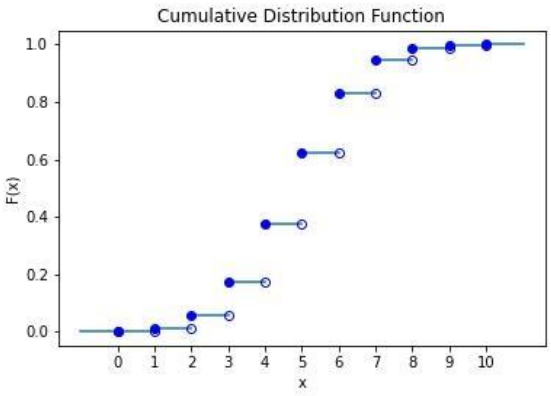
Select the one-parameter distribution below that best fits the graph. (2 Points)



- ◯ General Discrete
- ◯ Discrete Uniform
- (X) Bernoulli
- ◯ Binomial
- ◯ Poisson
- ◯ Continuous Uniform
- ◯ Normal
- ◯ Exponential

3

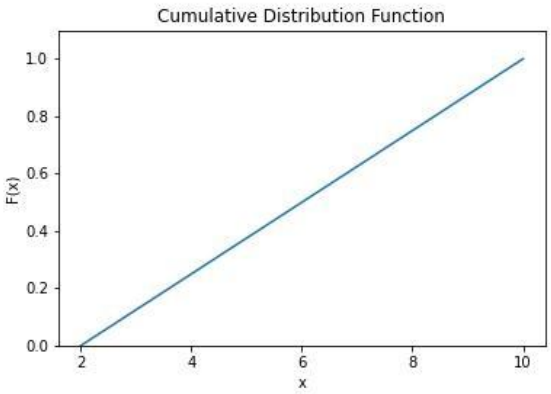
Select the one-parameter distribution below that best fits the graph. (2 Points)



- ◯ General Discrete
- ◯ Discrete Uniform
- ◯ Bernoulli
- ◯ Binomial
- (X) Poisson
- ◯ Continuous Uniform
- ◯ Normal
- ◯ Exponential

4

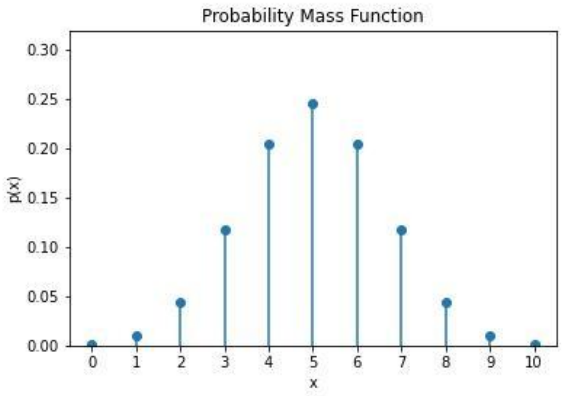
Select the two-parameter distribution below that best fits the graph. (2 Points)



- ◯ General Discrete
- ◯ Discrete Uniform
- ◯ Bernoulli
- ◯ Binomial
- ◯ Poisson
- (X) Continuous Uniform
- ◯ Normal
- ◯ Exponential

5

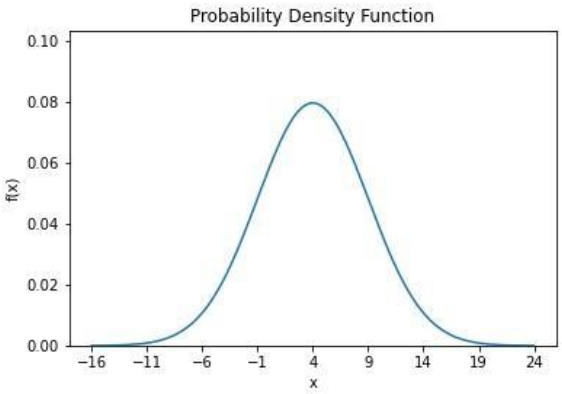
Given the graph of the PMF of X, what is the probability that random variable X is less than or equal to 2? Select the best answer. (2 Points)



- ◯ 0.22
- ◯ 0.125
- ◯ 0.05
- (X) 0.0625
- ◯ 0

6

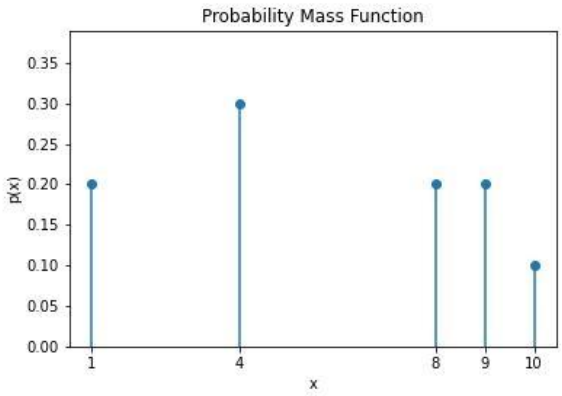
Given the graph of the PDF of X, what is the probability that random variable X is exactly equal to 4.0? Select the best answer. (2 Points)



- ◯ 0.5
- ◯ 0. 8
- ◯ 1
- Ⓧ 0

7

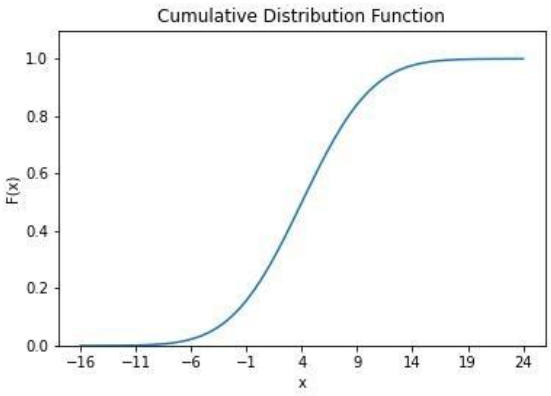
Based on this graph, the sample space of random variable X is: (2 Points)



- ◯ [1,10]
- Ⓧ {1,4,8,9,10}

8

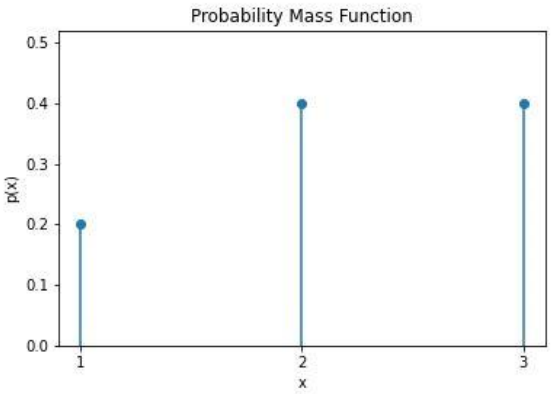
Given the graph of the CDF of X, the probability that random variable X is greater than 14 is approximately: (2 Points)



- ◯ 1
- ◯ 0.75
- (X) 0.02
- ◯ 0.66

9

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



- ◯ 0.4
- ◯ 1
- ◯ 1.5
- Ⓧ 2.2
- ◯ 3

10

The sample space of a Bernoulli random variable is (2 Points)

- ◯ $[0, \infty)$
- ◯ $(-\infty, \infty)$
- ◯ $[0, 1]$
- Ⓧ $\{0, 1\}$