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Stats / Discrete probability distribution: Basic

Discrete probability distribution: Basic

Fill in the $P(X=x)$ values to give a legitimate probability distribution for the discrete random variable X , whose possible values are $-5, 2, 4, 5$, and 6 .

Value x of X	$P(X=x)$
-5	0.10
2	0.10
4	0.18
5	0.40
6	0.22

add up to be 1

2 rules to be valid

① Prob. b/t 0-1

② Prob add up to be 1

$$\begin{array}{r} 0.10 \\ + 0.10 \\ \hline 0.22 \\ \hline 0.42 \end{array}$$

$$1 - 0.42 = 0.58 \quad (\text{for 2 missing})$$

Choose ANYTHING that adds up to 0.58

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