$f(x)=\begin{cases}\frac{1}{5} & 1<x<6\\ 0 & \text{otherwise}\end{cases}$

$P(X=2)=$

0.4

$f(x)=\begin{cases}k & -1<x<11\\ 0 & \text{otherwise}\end{cases}$

$k=$

$\frac{1}{7}$

$f(x)=\begin{cases}\frac{1}{12} & -2<x<10\\ 0 & \text{otherwise}\end{cases}$

Standard deviation of X =

0.3

$f(x)=\begin{cases}\frac{1}{9} & -4<x<5\\ 0 & \text{otherwise}\end{cases}$

$P(X<-2)=$

0.75

$f(x)=\begin{cases}\frac{1}{5} & 1<x<6\\ 0 & \text{otherwise}\end{cases}$

$P(X>4)=$

$f(x)=\begin{cases}\frac{1}{12} & -2<x<10\\ 0 & \text{otherwise}\end{cases}$

$P(|X|>1)=$

-0.3

$f(x)=\begin{cases}\frac{1}{12} & -2<x<10\\ 0 & \text{otherwise}\end{cases}$

$P(|X|<1.5)=$

$f(x)=\begin{cases}\frac{1}{9} & -4<x<5\\ 0 & \text{otherwise}\end{cases}$

Mean of X =

$f(x)=\begin{cases}\frac{1}{5} & 1<x<6\\ 0 & \text{otherwise}\end{cases}$

$P(X\neq 2)=$

0.1

$f(x)=\begin{cases}\frac{1}{12} & -2<x<10\\ 0 & \text{otherwise}\end{cases}$

Mean of X =

12

$\frac{5}{9}$

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$f(x)=\begin{cases}\frac{1}{9} & -4<x<5\\ 0 & \text{otherwise}\end{cases}$

Variance of X =

0.5

$f(x)=\begin{cases}\frac{1}{9} & -4<x<5\\ 0 & \text{otherwise}\end{cases}$

$P(|X|<2)=$

$\frac{2}{9}$

$f(x)=\begin{cases}\frac{1}{5} & 1<x<6\\ 0 & \text{otherwise}\end{cases}$

Mean of X =

3.5

$f(x)=\begin{cases}\frac{1}{5} & 1<x<6\\ 0 & \text{otherwise}\end{cases}$

Variance of X =

$\frac{4}{9}$

$f(x)=\begin{cases}\frac{1}{10} & -8<x<2\\ 0 & \text{otherwise}\end{cases}$

$P(|X|>1)=$

0

$f(x)=\begin{cases}\frac{1}{10} & -8<x<2\\ 0 & \text{otherwise}\end{cases}$

Mean of X =

$\frac{1}{15}$

$f(x)=\begin{cases}k & 0<x<15\\ 0 & \text{otherwise}\end{cases}$

$k=$

$f(x)=\begin{cases}k & -3<x<5\\ 0 & \text{otherwise}\end{cases}$

$k=$

$f(x)=\begin{cases}k & -1<x<6\\ 0 & \text{otherwise}\end{cases}$

$k=$

0.25

$f(x)=\begin{cases}\frac{1}{10} & -8<x<2\\ 0 & \text{otherwise}\end{cases}$

Standard deviation of X =

$\frac{1}{8}$

$f(x)=\begin{cases}\frac{1}{10} & -8<x<2\\ 0 & \text{otherwise}\end{cases}$

$P(X<-5)=$

0.6

$\frac{25}{12}$

$f(x)=\begin{cases}\frac{1}{12} & -2<x<10\\ 0 & \text{otherwise}\end{cases}$

Variance of X =

3.46

0.8

$f(x)=\begin{cases}k & 1<x<6\\ 0 & \text{otherwise}\end{cases}$

$k=$

$f(x)=\begin{cases}k & 1<x<11\\ 0 & \text{otherwise}\end{cases}$

$k=$

$\frac{1}{12}$

$f(x)=\begin{cases}\frac{1}{10} & -8<x<2\\ 0 & \text{otherwise}\end{cases}$

$P(-1<X<8)=$

6.5

$f(x)=\begin{cases}\frac{1}{12} & -2<x<10\\ 0 & \text{otherwise}\end{cases}$

$P(X>0)=$

$f(x)=\begin{cases}\frac{1}{9} & -4<x<5\\ 0 & \text{otherwise}\end{cases}$

2.89

$f(x)=\begin{cases}\frac{1}{9} & -4<x<5\\ 0 & \text{otherwise}\end{cases}$

$P(|X|>1)=$

Standard deviation of X =

2.60

1.5

$f(x)=\begin{cases}\frac{1}{10} & -8<x<2\\ 0 & \text{otherwise}\end{cases}$

$P(|X|<0.5)=$

6.75

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