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

$k=$

$-1/7$

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

$k=$

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

$k=$

$-1/12$

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

Standard deviation of X =

$-8/3$

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

$k=$

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

Mean of X =

3.5

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

Variance of X =

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

$k=$

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

$k=$

$-1/01$

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

Mean of X =

$\frac{1}{15}$

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

$P(|X|<1.5)$ =

-0.3

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

$P(X<-1)=$

$5/9$

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

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

2.89

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

Standard deviation of X =

0.75

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

$P(X<-5)=$

0.3

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

$P(X<4)=$

9.0

$\frac{25}{12}$

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

$P(X>4)=$

0.4

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

$P(1<2)=$

0

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

$P(|X|>1)=$

1

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

$P(X\neq 2)=$

8.0

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

Variance of X =

12

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

Mean of X =

4

$4/9$

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

$P(|X|<2)=$

0.25

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

$P(|X|<0.5)=$

0.1

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

$P(X<-2)=$

$\frac{6}{2}$

$7/9$

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

$P(X>1)=$

$\frac{1}{5}$

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

$P(X<-2)=$

$6/5$

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

$P(X>0)=$

2.60

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

Standard deviation of X =

55.9

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

Variance of X =

0.5

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

$P(X\neq 2)=$