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3. Exercise: Variance calculation

Exercises due Feb 28, 2020 05:29 IST Completed

Exercise: Variance calculation

1/1 point (graded)

Suppose that $\mathsf{Var}(X) = 2$. The variance of 2 - 3X is:

$$\mathsf{Var}\left(2-3X
ight)= \boxed{$$
 18

✓ Answer: 18

Solution:

The random variable 2-3X is of the form aX+b, with a=-3 and b=2. Thus, ${\sf Var}\,(2-3X)=(-3)^2{\sf Var}\,(X)=9\cdot 2=18$.

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You have used 1 of 3 attempts

1 Answers are displayed within the problem

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Negative Variance and added constants
Keep in mind that by definition variance cannot be negative! Further, remember consider the variance of...

1

Forgot to multiply
Added instead of multiplying....

1

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