



MITx: 6.041x Introduction to Probability - The Science of Uncertainty



Bookmarks

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Unit overview

Lec. 5: Probability
mass functions
and expectationsExercises 5 due Mar
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Conditioning on
an event; Multiple
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Conditioning on a
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r.v.'sUnit 4: Discrete random variables > Lec. 6: Variance; Conditioning on an event;
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Bookmark

Exercise: Variance calculation

(1/1 point)

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

✓ Answer: 18

Answer:

The random variable $2 - 3X$ is of the form $aX + b$, with $a = -3$ and $b = 2$. Thus, $\text{var}(2 - 3X) = (-3)^2 \text{var}(X) = 9 \cdot 2 = 18$.*You have used 2 of 2 submissions*

Exercises 7 due Mar
02, 2016 at 23:59 UTC

Solved problems

Additional
theoretical
material

Problem Set 4

Problem Set 4 due Mar
02, 2016 at 23:59 UTC

Unit summary

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