15. Exercise: Expectation calculation

Exercises due Feb 28, 2020 05:29 IST *Completed*

Exercise: Expectation calculation

1/1 point (graded)

The PMF of the random variable Y satisfies $p_Y(-1) = 1/6$, $p_Y(2) = 2/6$, $p_Y(5) = 3/6$, and $p_Y(y) = 0$ for all other values y. The expected value of Y is:

$\mathbf{E}[Y] =$ 3 ✔ **Answer:** 3

Solution:

$$\mathbf{E}[Y] = (-1) \cdot \frac{1}{6} + 2 \cdot \frac{2}{6} + 5 \cdot \frac{3}{6} = \frac{18}{6} = 3.$$

Submit You have used 1 of 3 attempts

Answers are displayed within the problem

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absolute value of negative values during summation 3

should we take the absolute value of the number when calculating the expectation or retain negative val

Bonus question?

Was this a sort of bonus question? Like, at least you will get one point anyway...

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