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5. Exercise: Chebyshev inequality

Exercises due May 1, 2020 05:29 IST Completed

Exercise: Chebyshev inequality

1/1 point (graded)

Let ${\cal Z}$ be normal with zero mean and variance equal to 4. For this case, the Chebyshev inequality yields:

$$\mathbf{P}ig(|Z| \geq 4) \leq igg[$$
 1/4 igg Answer: 0.25

Solution:

We have

$$\mathbf{P}ig(|Z|\geq 4)\leq rac{\mathsf{Var}\,(Z)}{4^2}=rac{4}{4^2}=rac{1}{4}.$$

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You have used 2 of 3 attempts

1 Answers are displayed within the problem

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