

IMM - DTU

02405 Probability  
2004-4-17  
BFN/bfn

Use the boxed formula at the bottom of page 417 to get

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$$P(A)$$

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$$P(A) = \int_0^1$$

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$$P(A) = \int_0^1 x^2 f_x(x) dx$$

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Use the boxed formula at the bottom of page 417 to get

$$P(A) = \int_0^1 x^2 f_x(x) dx = \int_0^1 x^2 dx$$

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Use the boxed formula at the bottom of page 417 to get

$$P(A) = \int_0^1 x^2 f_x(x) dx = \int_0^1 x^2 dx = \frac{1}{3}$$