DATA 605 - Discussion 7

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### Chapter 5.2 Exercise 16

Let be a random variable with density function

1. What is the value of ?
2. What is the cumulative distribution function for ?
3. What is the probability that ?

#### Part (a)

Probability density function must be positive and integrate to .

, then .

So density function is

#### Part (b)

Cumulative distribution function

#### Part (c)