title: "Math Homework Week 3"

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date: "November 15, 2015"

1) The cumulative distribution function of the random variable X is

F x to the power of left parenthesis x right parenthesis end exponent equals 1 minus e to the power of minus a x end exponent comma space a greater than 0 comma space x greater than 0

What is the probability density function? What is the expected value? What is the variance?

