

# Statistical Computing HW 3

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## Problem 5.1)

### Question

Give a method for generating a random variable having density function

$$f(x) = e^x / (e - 1), \quad 0 \leq x \leq 1$$

### Answer

### Derivation

### Algorithm

### Program

## Problem 5.3)

### Question

Use the inverse transform method to generate a random variable having distribution function

$$F(x) = \frac{x^2 + x}{2}, \quad 0 \leq x \leq 1$$

### Answer

### Derivation

### Algorithm

### Program