

## 1. Uniform Distribution

1.  $E(x) = 7.5$
2.  $4/15$
3. 0
4.  $4/15$
5.  $8/15$

## 2. Standard Normal Distribution

1. 0.05938
2. 0.07215
3. 0.2435
4. 0.3457
5. 0.5
6. 0.9901
7. 0.9901

## 3. Normal Distribution

1. 0.3413
2. 0.0026
3. 0.3830

## 4. Linear Combination of Random Variables

1.  $E(T) = 48, \sigma(T) = 1.0770$
2. 0.03166

## 6. Other Continuous Distributions...

2. 0.74071
3. 0.02496
4. 0.4815
5.  $\mu = 1.1107, \sigma = 0.5806$

## 7. Joint Probability Functions

1.  $c = 1/4$
5.  $\frac{3}{8}(e^{-2} - e^{-3})$  and  $\frac{e^{-1}}{2} - e^{-3}$ .