

Math 122**Introduction to Statistics and Probability**

Uniform and Standard Normal Practice

Round to four decimal places as necessary.



1. The values of a random variable x are uniformly distributed between 7 and 19.

- (a) Find $P(10 < x < 13)$

- (b) Find a so that $P(x < a) = 0.975$

2. Assume that the random variable z has a standard normal distribution.

- (a) Find $P(z < 1.23)$

- (b) Find $P(z > 2.34)$

- (c) Find $P(-0.12 < x < 3.45)$

- (d) Find a so that $P(x < a) = 0.60$.

- (e) Find a so that $P(x > a) = 0.70$

- (f) Find a so that $P(-a < x < a) = 0.70$