Exercise-Chap 20 11/3/15

**20.18** You are testing *H*0: *μ* = 100 against *Ha*: *μ* < 100 based on an SRS of nine observations from a Normal population. The data give = 98 and *s* = 3. The value of the *t* statistic is

(a) –6.

(b) –2.

(c) –98

**20.19** You are testing *H*0:*μ* = 100 against *Ha*: *μ* > 100 based on an SRS of 16 observations from a Normal population. The *t* statistic is *t* = 2.13. The degrees of freedom for the *t* statistic are

(a) 17.

(b) 16.

(c) 15.

**20.20** The P-value for the statistic in **Exercise 20.19**

(a) falls between 0.05 and 0.10.

(b) falls between 0.01 and 0.05.

(c) is less than 0.01.

**20.21** You have an SRS of six observations from a Normally distributed population. What critical value would you use to obtain an 80% confidence interval for the mean *μ* of the population?

(a) 1.440

(b) 1.476

(c) 2.015