**Solutions to Exercises for Chapter 11**

11.1.



Since –2.68 < –1.96, REJECT. Data suggest that gifted adult males in Great Britain are shorter than the general population in Great Britain.

11.1 with R.

n <- 20

sigma <- 2.5

mu <- 68.5

ybar <- 67

z <- (ybar-mu)/(sigma/sqrt(n))

z

ttp <- 2\*pnorm(z)

ttp

> z

**[1] -2.683282**

> ttp

**[1] 0.007290358**