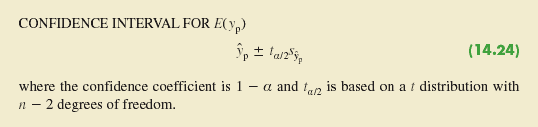
The data from exercise 1 follow.

http://west.cengagenow.com/ilrn/books/asmb03h/images/ch14/asmb03h.14.043.png

http://west.cengagenow.com/ilrn/books/asmb03h/images/ch14/asmb03h_ch14_eqa23.gif

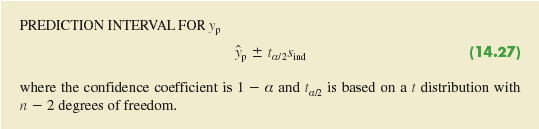
a. Use equation (14.23) to estimate the standard deviation of http://west.cengagenow.com/ilrn/formulaImage?f=%5Cwidehat%7By%7D_%7Bp%7Dwhen *x =* 4.  

b. Use equation (14.24) to develop a 95% confidence interval estimate of the expected value of *y* when *x =* 4.

95% CI = (n1,n2)   
http://west.cengagenow.com/ilrn/books/asmb03h/images/ch14/asmb03h_ch14_eqa26.gif

c. Use equation (14.26) to estimate the standard deviation of an individual value of *y* when *x =* 4.  

d. Use equation (14.27) to develop a 95% prediction interval for *y* when *x =* 4.  
