The data from exercise 1 follow.





a. Use equation (14.23) to estimate the standard deviation of when *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)


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.
