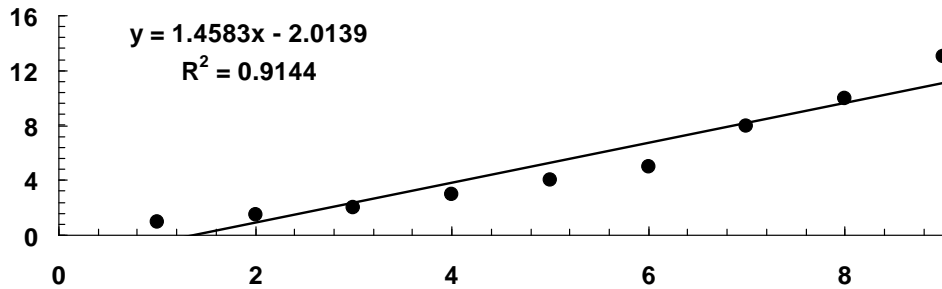


### Solution 17.6

(a) The results can be summarized as

$$y = -2.01389 + 1.458333x \quad (s_{y/x} = 1.306653; r = 0.956222)$$



As can be seen, although the correlation coefficient appears to be close to 1, the straight line does not describe the data trend very well.

(b) The results can be summarized as

$$y = 1.488095 - 0.45184x + 0.191017x^2 \quad (s_{y/x} = 0.344771; r = 0.997441)$$

A plot indicates that the quadratic fit does a much better job of fitting the data.

