

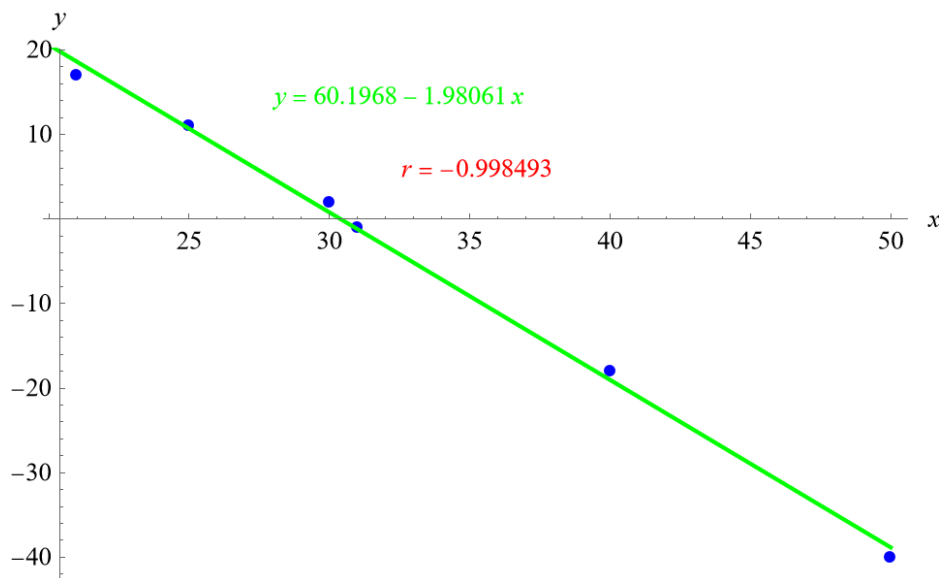
Exercise 29

For the following exercises, use each set of data to calculate the regression line using a calculator or other technology tool, and determine the correlation coefficient to 3 decimal places of accuracy.

x	21	25	30	31	40	50
y	17	11	2	-1	-18	-40

Solution

Plot the following points on a graph: (21, 17), (25, 11), (30, 2), (31, -1), (40, -18), and (50, -40).



Mathematica's FindFit function gives

$$y = 60.1968 - 1.98061x,$$

and Mathematica's Correlation function gives $r = -0.998493$.