

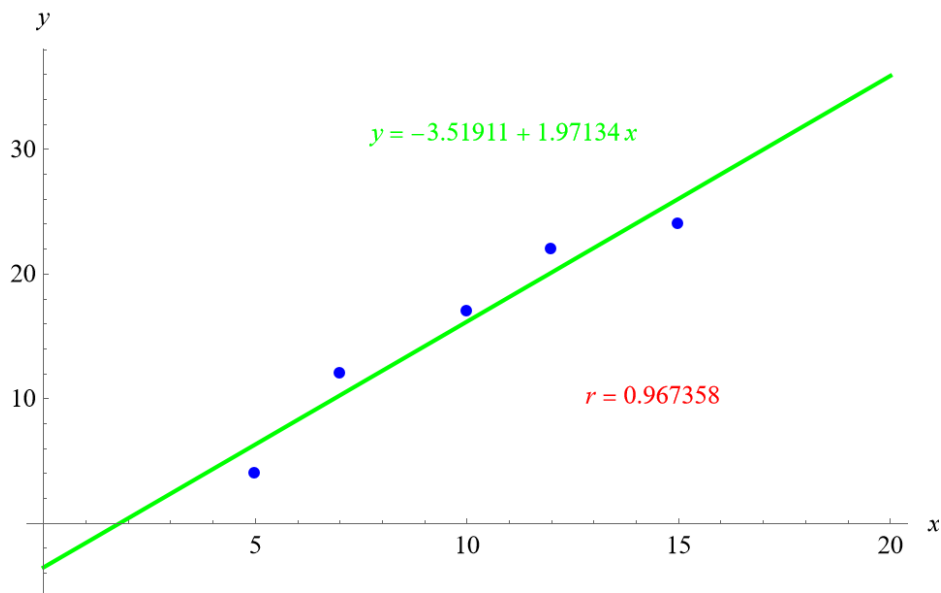
## Exercise 26

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.

$x$	5	7	10	12	15
$y$	4	12	17	22	24

### Solution

Plot the following points on a graph: (5, 4), (7, 12), (10, 17), (12, 22), and (15, 24).



Mathematica's FindFit function gives

$$y = -3.51911 + 1.97134x,$$

and Mathematica's Correlation function gives  $r = 0.967358$ .