

The following table shows the results of the regression analysis for the dependent variable *Y* (in thousands of dollars) against the independent variable *X* (in thousands of dollars). The regression equation is  $\hat{Y} = 1.2X + 5.0$ . The coefficient of determination is  $R^2 = 0.85$ .

<i>X</i> (thousands of dollars)	<i>Y</i> (thousands of dollars)
10	17
20	29
30	41
40	53
50	65
60	77
70	89
80	101
90	113
100	125

The regression line is shown in the graph below. The data points are plotted, and the line of best fit is drawn through them. The equation of the line is  $\hat{Y} = 1.2X + 5.0$ .

The regression line is shown in the graph below. The data points are plotted, and the line of best fit is drawn through them. The equation of the line is  $\hat{Y} = 1.2X + 5.0$ .