

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 $\hat{Y} = 1.2X + 0.5$. The coefficient of determination is $R^2 = 0.85$. The standard error of the estimate is $s_e = 0.3$. The t-statistic for the slope coefficient is $t = 4.5$, which is greater than the critical value $t_{\alpha/2, n-2} = 2.0$. Therefore, the slope coefficient is statistically significant at the 5% level.

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