Size of Data Set: 100

Regression equation/line: Y=11.20816-0.1098466x

Slope is -0.1098466

The y-intecept is 11.20816

Sum of Regression Bar Errors^2=16.6051535247

Sum of YBar Errors=188.830557742

R/correlation coefficient: -0.955020

R^2/coefficient of determination:= 0.912063

X and Y values from the Scatter Plot Points

|  |  |
| --- | --- |
| X | Y |
| 1.889 | 11.736 |
| 8.558 | 9.664 |
| 15.39 | 9.044 |
| 25.477 | 7.765 |
| 34.12 | 7.741 |
| 38.804 | 6.557 |

Is the true correlation significant at alpha = 0.05? at alpha= 0.01? Set up a complete hypothesis test.