## Answer on Question #85313 – Math – Statistics and Probability Question

Explain the assumptions of the linear regression model

## Solution

- 1. Linear regression needs the relationship between the independent and dependent variables to be linear.
- 2. The linear regression analysis requires all variables to be multivariate normal.
- 3. Linear regression assumes that there is little or no multicollinearity in the data. Multicollinearity occurs when the independent variables are too highly correlated with each other.
- 4. Linear regression analysis requires that there is little or no autocorrelation in the data. Autocorrelation occurs when the residuals are not independent from each other.
- 5. Homoscedasticity. It means that the residuals are equal across the regression line.

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