Trends in Two-Variable Data Sets

Terminology
Line of Best Fit – A $fine$ that passes $fine$, or as near as possible to, the
Line of Best Fit – A $line$ that passes $line$, or as near as possible to, the points on a <u>Scatter plot</u> .
Regression Equation - The equation of a line of best fit.
Correlation Coefficient – A value between $-$ and $+$ which represents how $\frac{1052}{1052}$ the
points in a data set are, on average, from the <u>line of best fit</u> . The closer
the value of f is to $-$ or $+$, the closer the fit. The correlation coefficient does not
indicate whether there is a <u>Causa</u> relationship between the variables.
Interpolation - To <u>estimate</u> or <u>calculate</u> a value between two other values in a data set.
petween two other values in a data set.
Extrapolation - To <u>effinate</u> or <u>calculate</u> a value <u>beyond</u> a given data set.
Outlier – An <u>CXFCME</u> value in a set of data or a value <u>Separatek</u> from the main body of data, which does not follow the <u>FCENA</u> of the other
values in the data set.
Influential Point – A data point with $\underline{extreme}$ values that greatly affects the $\underline{5/\mu\mu}$ of the regression line. Does not $\underline{feccease}$ the coefficient of determination, \underline{f} , rather it \underline{hccase} it.
Cause and Effect Relationship – A relation where a <u>Change</u> in the <u>independent</u> <u>Variable</u> has a predictable <u>effect</u> on the <u>dependent</u>