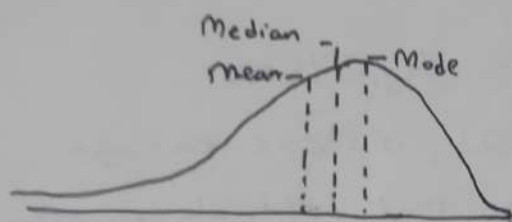5) In left & right skewed data, what is the relationship between Mean, Median & Mode? Draw the graph to represent the same.
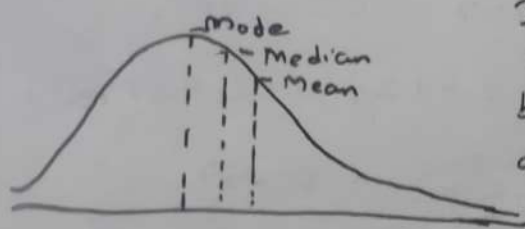
Soln: i) Left Skewed distribution:

In Left Skewed/Negative skewed distribution, there will be Outliers on the left side of distribution because of which mean tends to go towards left side. Median will be middle of distribution. Mode is the maximum occuring data point in Distribution.

Relationship: Mode > Median > Mean.

ii) Right Skewed Distribution

In Right Skewed/Positive Skewed Distribution, there will be Outliers on right side of distribution, which makes the mean turn towards right side. Median will be middle of distribution. Mode is the maximum occuring data point in Distribution.

Relationship: Mode < Median < Mean