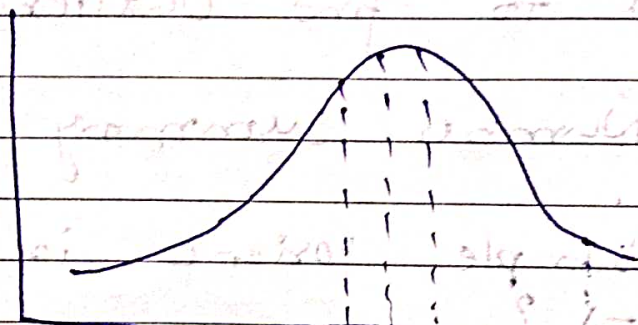


Q. In left & right-skewed data, what is the relationship between mean, median & mode? Draw the graph to represent the same.

Sol

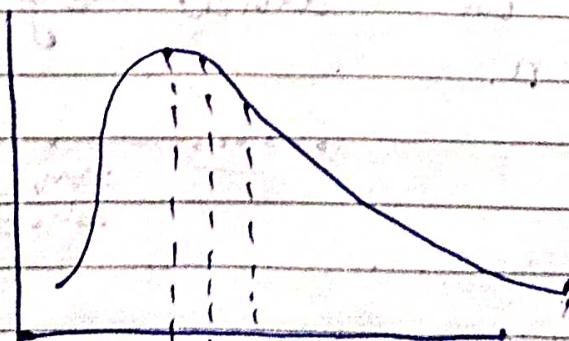
In left skewed data (Negatively Skewed), mean is always less than median and the median is always lesser than the mode.



Mean \leftarrow Median \rightarrow Mode

$\text{Mean} < \text{Median} < \text{Mode}$

In right skewed data (positively skewed), mean is always greater than the median and the median is always greater than the mode.



Mode \leftarrow Median \rightarrow Mean

~~Mode~~

$\text{Mean} > \text{Median} > \text{Mode}$