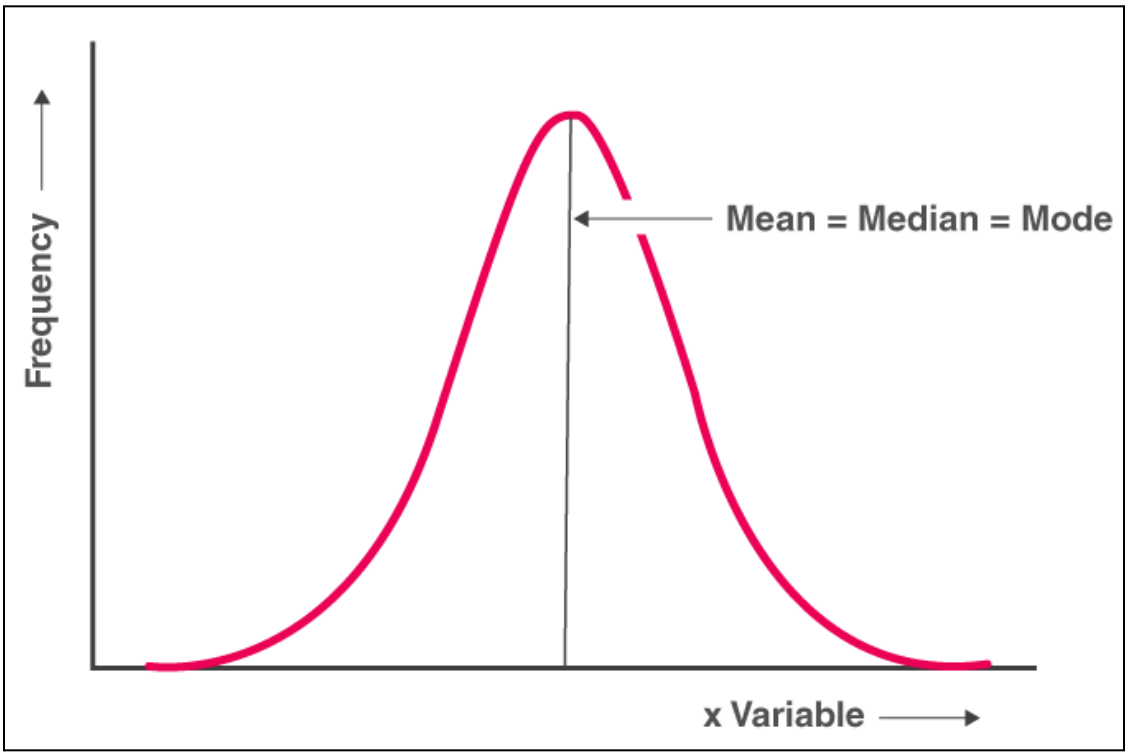
Question : In left & right-skewed data, what is the relationship between mean, median & mode? Draw the graph to represent the same.

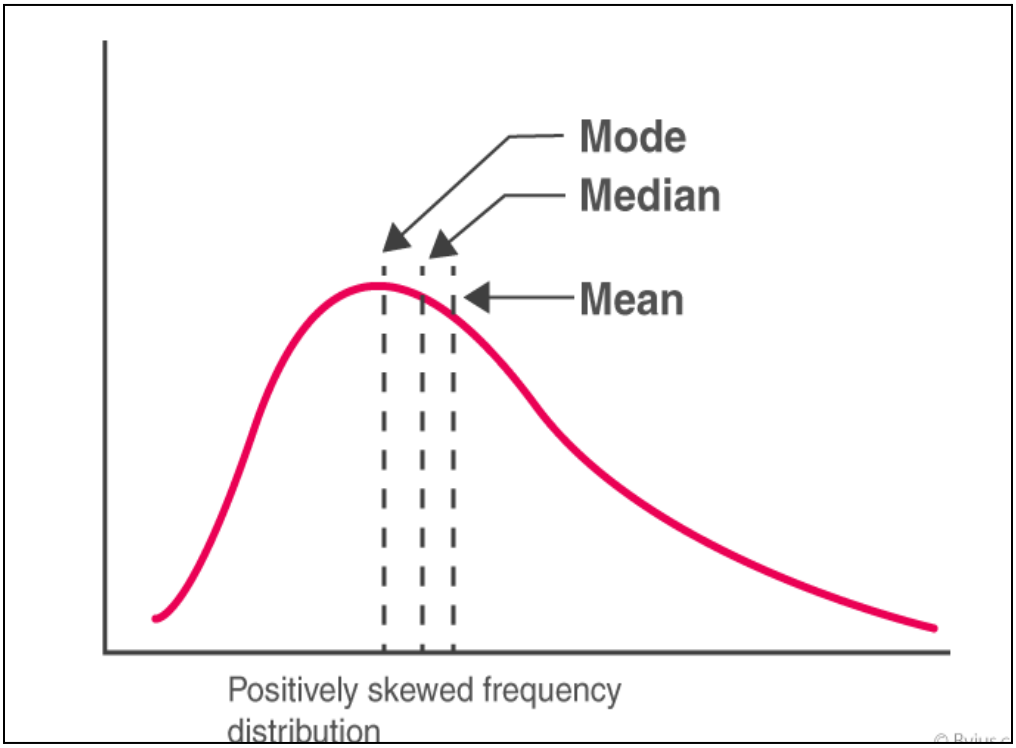
Solution: If a frequency distribution graph has a symmetrical frequency curve, then mean, median and mode will be equal.

- **Frequency Distribution with Symmetrical Frequency Curve (Mean = Median = Mode)**



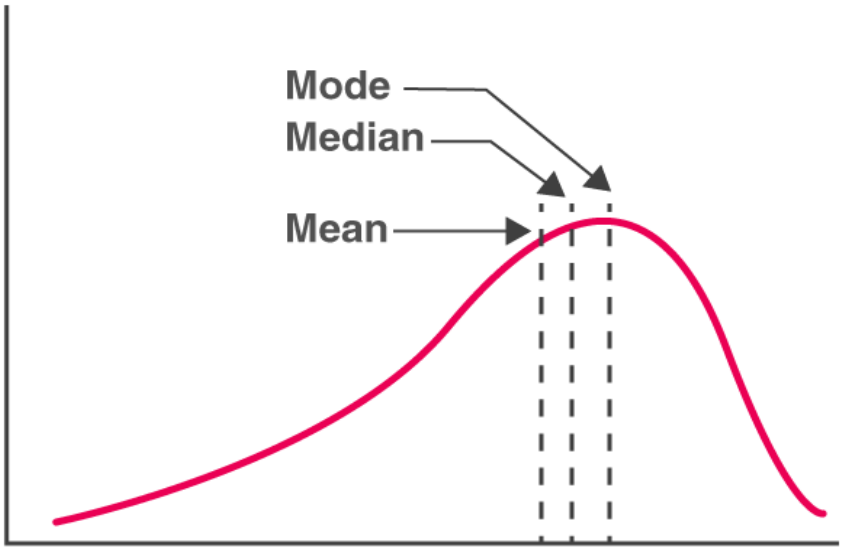
- **For Positively Skewed Frequency Distribution(Mean > Median > Mode)**

In case of a positively skewed frequency distribution, the mean is always greater than median and the median is always greater than the mode.



- **For Negatively Skewed Frequency Distribution(Mean < Median < Mode)**

In case of a negatively skewed frequency distribution, the mean is always lesser than median and the median is always lesser than the mode.



Negatively skewed frequency distribution