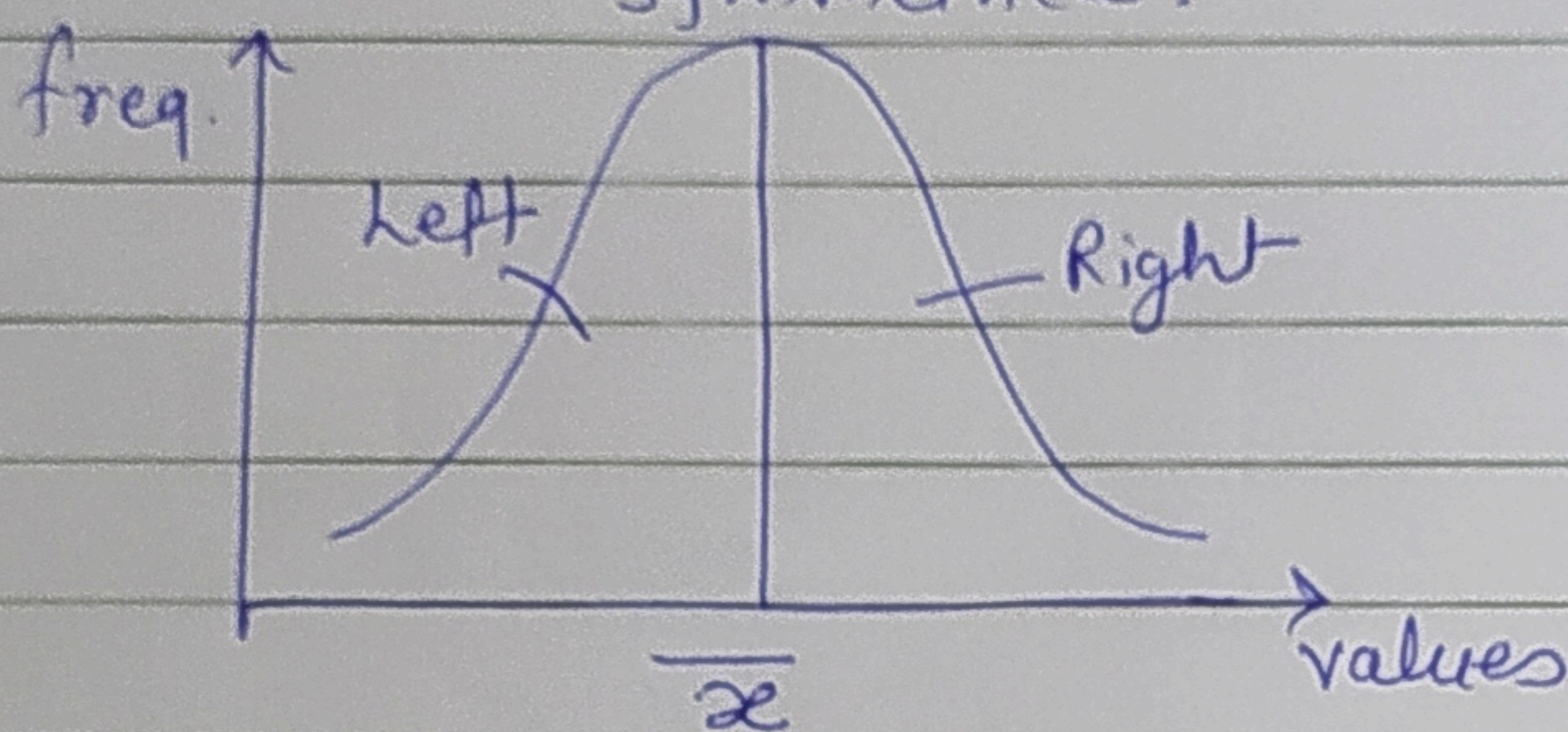


Assignment 3.



Q Relationship between mean, median and mode in Normal Distribution and Log Normal Distribution

Ans \Rightarrow For Normal Distribution symmetrical.

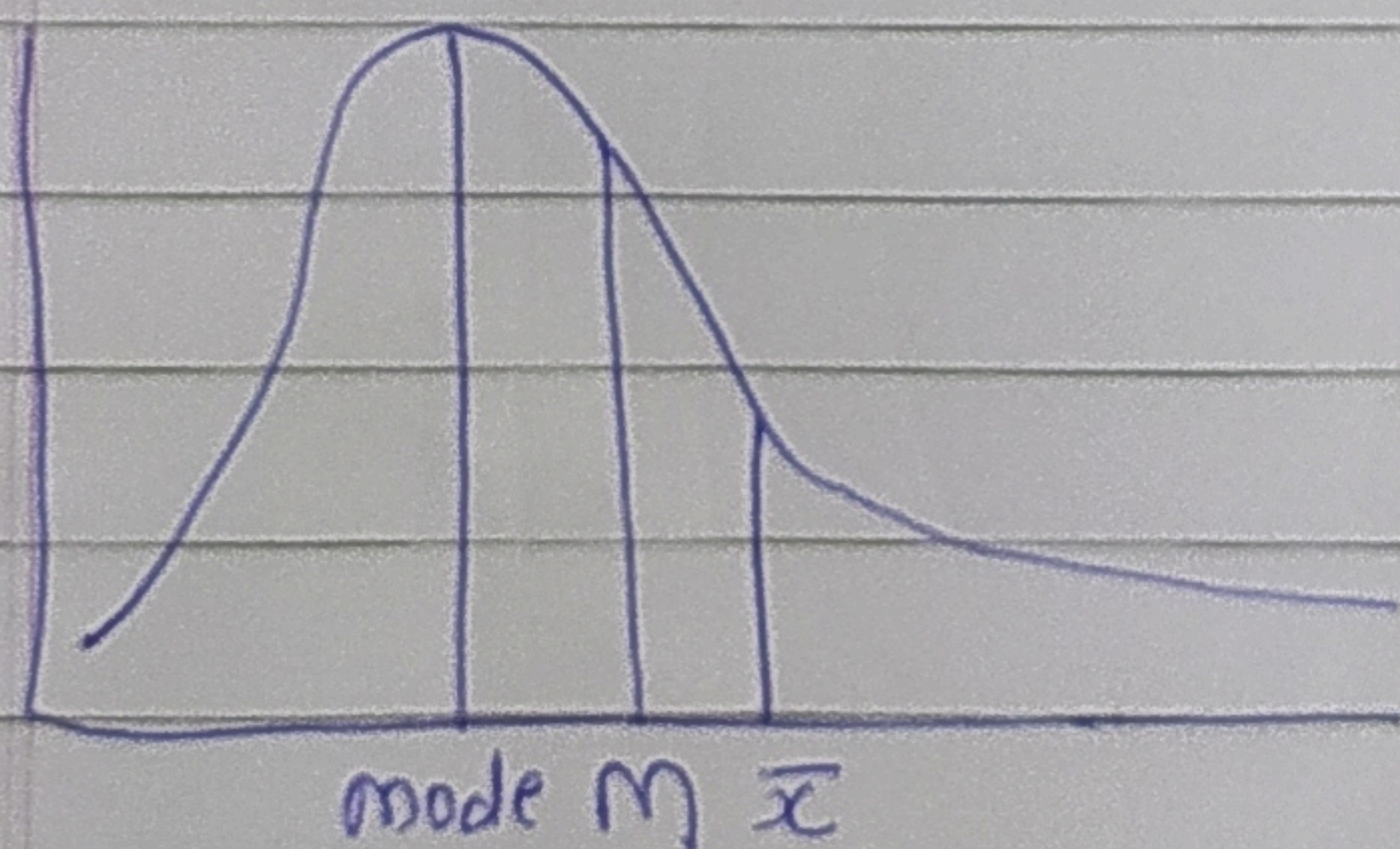


In this distribution, mean, median and mode are all equal and located at the center of distribution.

$$\text{mean } (\bar{x}) = \text{median } (M) = \text{mode}$$

For Log Normal Distribution

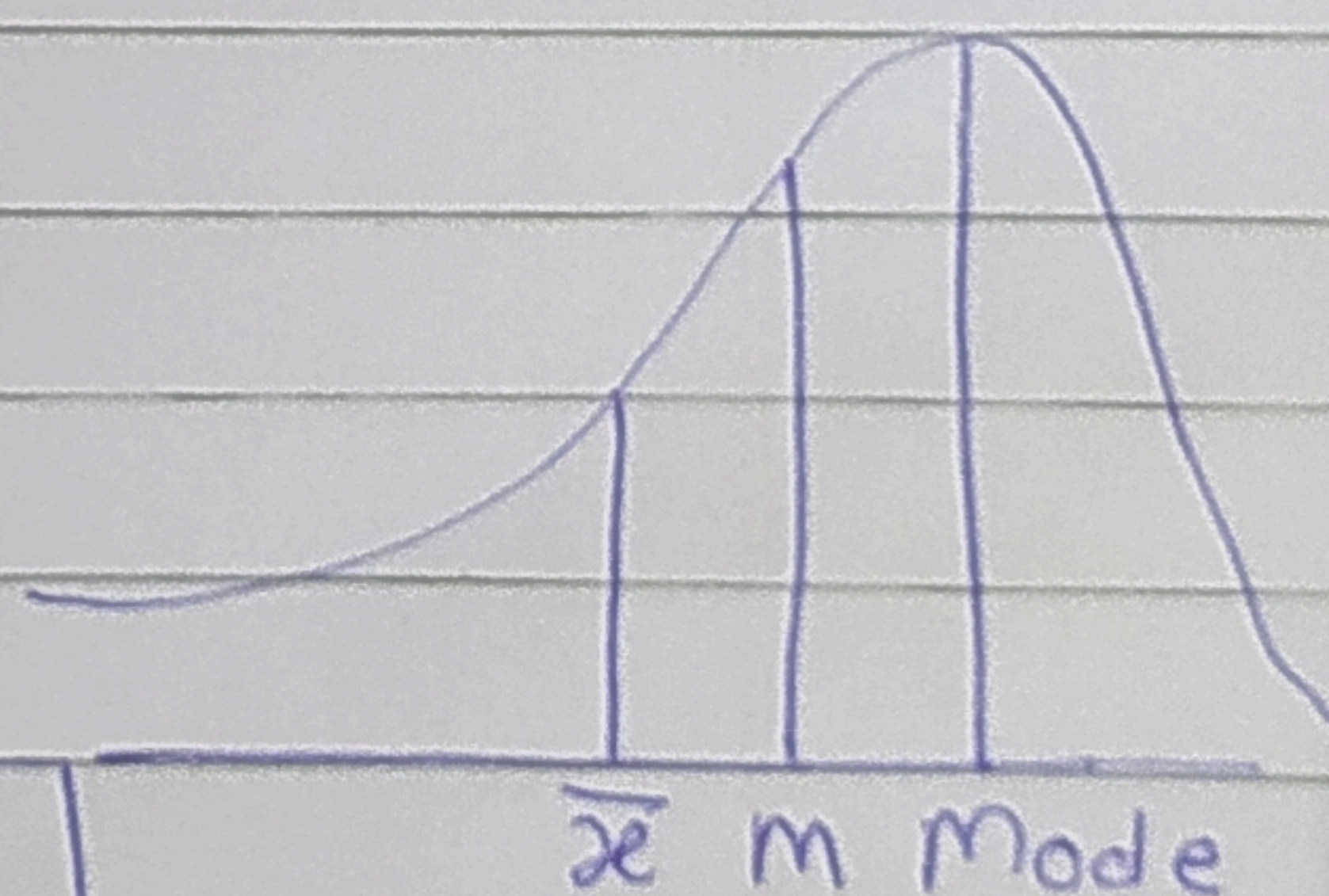
Right skewed



$$\text{mean } (\bar{x}) > \text{median } (M) > \text{mode}$$

$$\bar{x} > M > \text{mode}$$

Left skewed



$$\text{mean } (\bar{x}) < \text{median } (M) < \text{mode}$$

$$\bar{x} < M < \text{mode}$$