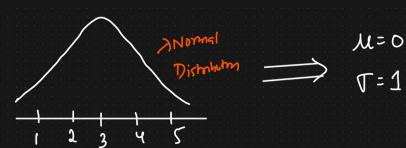
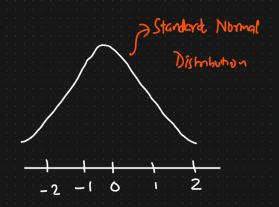


Standard Normal Distribution And Z-Siorc

$$\frac{Z-stals}{X} = \begin{cases} 1,2,3,4,5 \end{cases}$$
Normally Dishbulard

T=1.414 21





L-score=
$$\frac{\chi_i - \mu}{\tau}$$

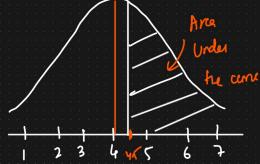
X & SND (M=0 (0==1)

$$= \frac{1-3}{1} = -2 \qquad \frac{4-3}{1} = \boxed{1}$$

$$= \frac{2-3}{1} = -1 \qquad \frac{5-3}{1} = 2$$

$$= \frac{3-3}{1} = 0$$





$$I_{-Score} = \frac{4.5 - 4}{1} = 0.5$$

What periontage of data is falling above 4.7?

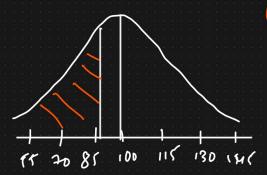
$$L.score = \frac{4.5 - 4}{1}$$

$$= \frac{0.5}{1}$$

Area undu the curve
$$(\langle 2.7 \rangle = 0.06681$$

$$= 6.67.$$

(Prob) In India the average IQ is 100, with a standard deviation of 15. What is the percentage of the population would you expect to have an IQ lower than 85?



①
$$70 \text{ Score} = \frac{11 - 11}{5}$$

$$= \frac{85 - 100}{15}$$

$$= -\frac{1}{1}$$

Area undu the luxue = 0.15866 = 15.866

Area under the core (>,85) = 1-0.15866 = ~84%