

SOLVED PROBLEMS

Example 1 ✓

X is a normal variate with mean 42 and standard deviation 4. Find the probability that a value taken by X is (i) less than 50 (ii) greater than 50 (iii) less than 40 (iv) greater than 40 (v) between 43 and 45 (vi) between 40 and 44 (vii) between 37 and 41.

Solution

X is normal variate with parameters $\mu = 42$ and $\sigma = 4$.

Therefore, $Z = \frac{X - \mu}{\sigma} = \frac{X - 42}{4}$ is a Standard Normal variate.

$$(i) P[X < 50] = P\left[\frac{X - 42}{4} < \frac{50 - 42}{4}\right]$$

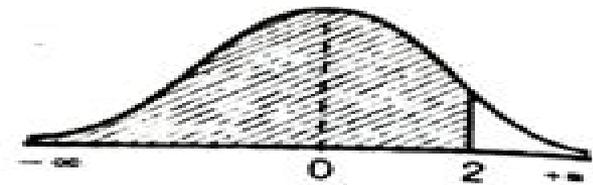
$$= P[Z < 2]$$

$$= P(-\infty < Z < 0) + P(0 < Z < 2)$$

$$= [\text{area from } (-\infty) \text{ to } 0] + [\text{area from } 0 \text{ to } 2]$$

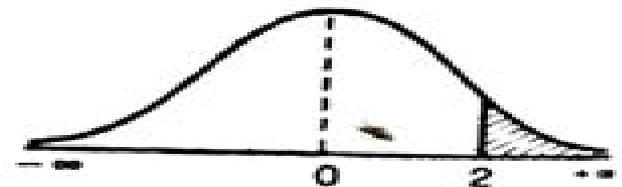
$$= 0.5 + 0.4772$$

$$= \mathbf{0.9772}$$



$$(ii) P[X \geq 50] = P\left[\frac{X - 42}{4} \geq \frac{50 - 42}{4}\right]$$

$$= P[Z > 2]$$



Normal Distribution Problems And Answers

Mark Steyvers



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