

NCERT Solutions Class 11 Maths Chapter 3 Trigonometric Functions

Question 1:

Find the radian measures corresponding to the following degree measures:

- (i) 25° (ii) $-47^\circ 30'$ (iii) 240° (iv) 520°

Solution:

We know that $180^\circ = \pi$ radian

Therefore,

$$\begin{aligned} \text{(i)} \quad 25^\circ &= \frac{\pi}{180} \times 25 \text{ radian} \\ &= \frac{5\pi}{36} \text{ radian} \end{aligned}$$

$$\begin{aligned} \text{(ii)} \quad -47^\circ 30' &= -\left(47 \frac{1}{2}\right)^\circ = -\left(\frac{95}{2}\right)^\circ \\ &= -\left(\frac{95}{2}\right)^\circ = \frac{\pi}{180} \times -\left(\frac{95}{2}\right) \text{ radian} \\ &= -\frac{19\pi}{72} \text{ radian} \end{aligned}$$

$$\begin{aligned} \text{(iii)} \quad 240^\circ &= \frac{\pi}{180} \times 240 \text{ radian} \\ &= \frac{3\pi}{4} \text{ radian} \end{aligned}$$

$$\begin{aligned} \text{(iv)} \quad 520^\circ &= \frac{\pi}{180} \times 520 \text{ radian} \\ &= \frac{26\pi}{9} \text{ radian} \end{aligned}$$

Question 2:

Find the degree measures corresponding to the following radian measures $\left(\text{Use } \pi = \frac{22}{7}\right)$.

- (i) $\frac{11}{16}$ (ii) -4 (iii) $\frac{5\pi}{3}$ (iv) $\frac{7\pi}{6}$

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