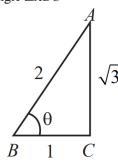


PHYSICS CLASS 11 BATCH

DPP-04

- Convert the following in degrees 1.

- (vi) $\frac{5\pi}{3}$
- 2. Convert following into radiant
 - (i) 45°
- (ii) 135°
- (iii) 60°
- (iv) 90°
- (v) 240°
- (vi) 120°
- If $\tan \theta = \frac{4}{3}$. Find the value of $\sin \theta$ 3.
 - (1) $\frac{3}{5}$ (2) $\frac{4}{3}$
- (4) $\frac{5}{4}$
- Find the value of $\sin (90 + \theta)$ 4.
 - (1) $\sin \theta$
- (2) $-\sin\theta$
- (3) $\cos \theta$
- (4) $-\cos\theta$
- 5. Find the angle $\angle ABC$



- (1) 0°
- (2) 60°
- $(3) 30^{\circ}$
- $(4) 45^{\circ}$

- Find the value of cos 75° **6.**

 - (1) $\frac{\sqrt{3}-1}{2\sqrt{2}}$ (2) $\frac{2\sqrt{2}}{\sqrt{3}-1}$
 - (3) $\frac{\sqrt{3}}{\sqrt{2}}$ (4) $\sqrt{2}$
- 7. Find the value of cos (330°)
 - $(1) \sin 45^{\circ}$
 - $(2) \cos 30^{\circ}$
 - $(3) \cos 60^{\circ}$
 - $(4) \sin 60^{\circ}$
- If $\frac{\sin\theta + \cos\theta}{\sin\theta \cos\theta} = \frac{7}{3}$ then find $\tan\theta$?

- 9. Which of the following option is correct for the value of $\sin \theta$.
 - (1) 2

 - (3) $\sqrt{2}$
 - (4) $\frac{\sqrt{5}}{2}$
- **10.** Which of the following is correct for $\sin(2\theta)$
 - (1) $2 \sin \theta \cdot \cos \theta$
 - (2) $\sin^2 \theta$
 - (3) $\sin^2 \theta \cos^2 \theta$
 - (4) $2 \sin \theta$



ANSWER KEY

1. (i) 225°

(ii) 240°

(iii) 30°

(iv) 270°

(v) 60°

(vi) 300°

2. (i)

(ii) $\frac{3\pi}{4}$

(iii)

(iv) $\frac{\pi}{2}$

(v)

(vi)

 $\frac{2\pi}{3}$

3. (3)

4. (3)

5. (2)

6. (1)

7. (4)

8. (2)

9. (2)

10. (1)