

Class 11 Maths Chapter 3 Trigonometric Functions MCQs For Practice

1. The value of $(\cos x + \cos y)^2 + (\sin x + \sin y)^2$ is

- (a) $\cos^2[(x-y)/2]$
- (b) $\cos^2[(x+y)/2]$
- (c) $4\cos^2[(x-y)/2]$
- (d) $4\cos^2[(x+y)/2]$

2. The value of the trigonometric function $\sqrt{2 + \sqrt{2 + \sqrt{2 + 2\cos 8\theta}}}$ is

- (a) $2 \cos\theta$
- (b) $2 \cos 2\theta$
- (c) $\cos 2\theta$
- (d) $\sqrt{2} \cos\theta$

3. The value of $\sin 22^\circ 30'$ is

- (a) $[(\sqrt{2}+1)/2\sqrt{2}]^{1/2}$
- (b) $\sqrt{2}-1$
- (c) $[(\sqrt{2}-1)/\sqrt{2}]^{1/2}$
- (d) $[(\sqrt{2}-1)/2\sqrt{2}]^{1/2}$

4. Find the value of $\frac{4\tan \theta(1 - \tan^2 \theta)}{1 - 6\tan^2 \theta + \tan^4 \theta}$

- (a) $4\tan \theta$
- (b) $\tan 4\theta$
- (c) $\tan^4 \theta$
- (d) $\tan \theta$

5. The value of $\tan 330^\circ$

- (a) $-1/\sqrt{3}$
- (b) $1/\sqrt{3}$
- (c) $\sqrt{3}$
- (d) 1

6. Find the value of $\cot 1^\circ \cot 2^\circ \dots \cot 89^\circ$

- (a) -1
- (b) 0
- (c) 1
- (d) Not defined

7. General solution of the trigonometric equation $\sqrt{2}\sec x + \tan x = 1$ is

- (a) $n\pi - \pi/4$
- (b) $2n\pi - \pi/4$
- (c) $2n\pi \pm \pi/4$
- (d) $2n\pi \pm \pi/2$

8. Given the value of $\sin 18^\circ = (\sqrt{5}-1)/4$, then the value of $\cos 36^\circ$ is

- (a) $(\sqrt{5}+1)/4$
- (b) $(\sqrt{5}-1)/4$
- (c) 1
- (d) Not defined

9. For acute angles x and y , $\cos x = 3/5$ and $\cos y = 4/5$, then the value of $\cos [(x-y)/2]$ is

- (a) 1
- (b) $5\sqrt{2}$
- (c) $7/5\sqrt{2}$
- (d) $\sqrt{2}+1$

10. The value of $\cos 36^\circ \cos 72^\circ \cos 108^\circ \cos 144^\circ$ is

- (a) 1/2
- (b) 1
- (c) 1/32
- (d) 1/16

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Q.1 - (c)	Q.2 - (a)	Q.3 - (d)	Q.4. - (b)	Q.5 - (a)
Q.6 - (c)	Q.7 - (b)	Q.8 - (a)	Q.9 - (c)	Q.10 - (d)