

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

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Jiyuan Zhang



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