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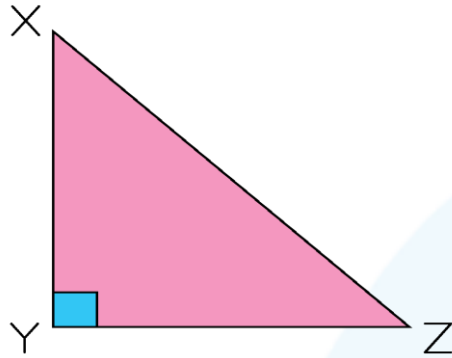
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## TRIGONOMETRIC RATIOS WORKSHEETS

1. In a triangle XYZ, right-angled at Y,  $XY = 15$  inches, and angle  $X = 30^\circ$ . Find  $\tan X$ ,



2. Match the following:

a. $-\cos^2 79$	p- $\cot^2 79 + 1$
b. $-\operatorname{cosec}^2 79$	q- 0
c. $-\sin 90$	r- $\sin^2 79$
d. $-\cos 90$	s- 1

3.  $\sin X = \cos X$  for all values of X

- a) True
- b) False

4.  $\tan X$  is not defined for  $X = 0$

- a) True
- b) False

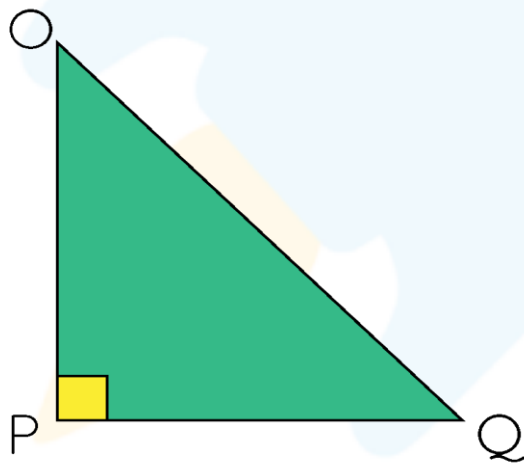
5.  $\cos 25^\circ - \sin 65^\circ$  is equal to:

- a) 1
- b) 0
- c)  $\frac{1}{2}$
- d) Cannot be calculated

6. Find the value of  $(\cos^2 51^\circ - \cos^2 39^\circ)$

7. Evaluate:  $(\cos 45^\circ + 4 \sec 60^\circ - 3 \tan 30^\circ)$

8. In a triangle OPQ, right-angled at P, OQ = 16 inches and PQ = 8 inches.  
Find: angle O, angle Q



9. Calculate the value of  $(\sec^2 62^\circ - \tan^2 62^\circ)(\sin^2 51^\circ + \cos^2 51^\circ)$

10. Find the value of  $(3 \operatorname{cosec}^2 A - 3 \cot^2 A)$

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- Gary Schwartz

"Cuemath is great because my son has a one-on-one interaction with the teacher. The instructor has developed his confidence and I can see progress in his work. One-on-one interaction is perfect and a great bonus."

- Kirk Riley

"I appreciate the effort that miss Nitya puts in to help my daughter understand the best methods and to explain why she got a problem incorrect. She is extremely patient and generous with Miranda."

- Barbara Cabrera

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**ANSWERS**

1.	$\tan X = \sqrt{3}$
2.	a.-r b.-p c.-s d.-q
3.	b) False
4.	b) False
5.	b) 0
6.	1
7.	$\frac{1}{\sqrt{2}} + 8 - \sqrt{3}$
8.	Angle O = $30^\circ$ , Angle Q = $60^\circ$
9.	1
10.	3