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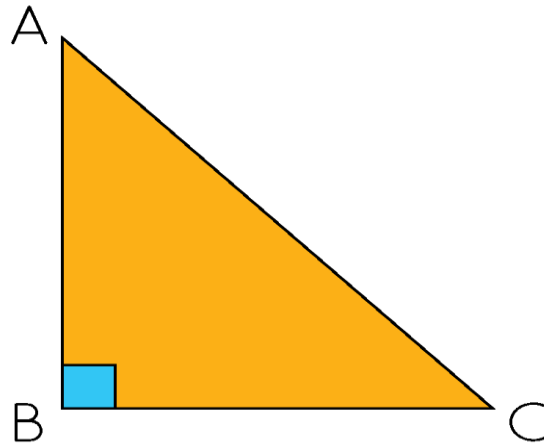
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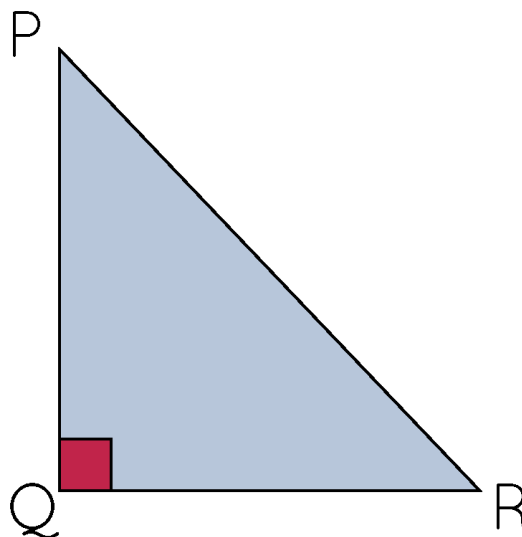
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## TRIGONOMETRIC RATIOS WORKSHEETS

1. In a triangle ABC, right-angled at B,  $AC = 5$  inches and angle  $A = 60^\circ$ . Find:  $\sin A$



2. In a triangle PQR, right-angled at Q,  $PR = 8$  inches, and  $PQ = 4$  inches. Find: angle P, angle R



3.  $\sin$  increases as its angle increases
- True
  - False
4. All the trigonometric ratios can be expressed as  $\sin$  and  $\cos$
- True
  - False

5. Sin A is equal to

- a) Cos A
- b) Sin (90 - A)
- c) Cos (90-A)
- d) None of these

6.  $\sin 2A = \cos (A + 25)$ . Find A

7. Evaluate:  $(2 \cos 45 + 3 \tan 60) \sqrt{2} +$

8. Calculate the value of  $(\sin^2 26 + \sin^2 64)$

9. Match the following:

- |             |           |
|-------------|-----------|
| a. - Sin 30 | p- Cos 12 |
| b. - Sin 78 | q- Tan 65 |
| c. - Cos 69 | r- 12     |
| d. - Cot 25 | s- Sin 21 |

10. Find the value of  $(7 \sec^2 A - 7 \tan^2 A)$

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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.	$\frac{\sqrt{3}}{2}$
2.	Angle P = $60^\circ$ , Angle R = $60^\circ$
3.	a) True
4.	a) True
5.	c) $\cos(90-A)$
6.	21.67
7.	$\sqrt{2} + 3\sqrt{2}$
8.	
9.	a.-r b.-p c.-s d.-q
10.	7