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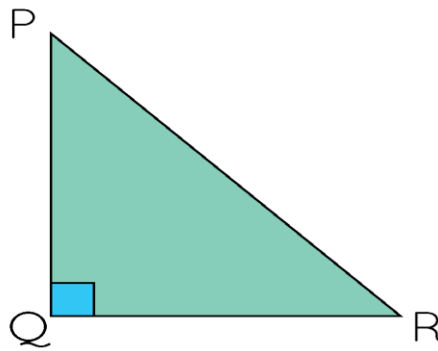
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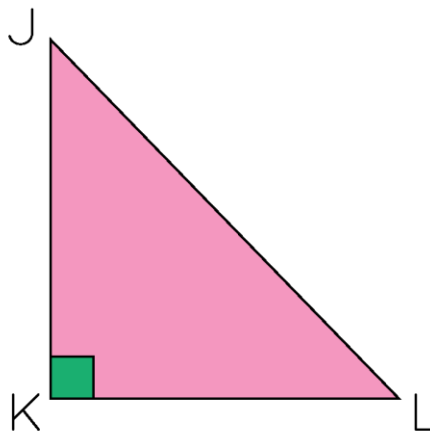
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## TRIGONOMETRIC RATIOS WORKSHEETS

1. In a triangle PQR, right-angled at Q, PR = 37 inches and angle R =  $30^\circ$ . Find:  $\sin R$



2. In a triangle JKL, right-angled at K, JL = 10 inches and KL = 5 inches. Find: angle J, angle L



3. Cos increases as its angle increases.  
a) True  
b) False
4.  $\tan (P+Q) = \tan P + \tan Q$   
a) True  
b) False

5.  $\frac{\tan A}{\cot (90 - A)}$  equals to:

- a) 1
- b)  $\frac{1}{2}$
- c) 2
- d) 0

6.  $\cot (2C+3) = \tan (C-5)$ . Find C

7. Evaluate:  $(7 \sec 0 + 3 \cot 45)$

8. Match the following:

- |                 |                    |
|-----------------|--------------------|
| a. $-\sin^2 28$ | p- $\sec^2 28 - 1$ |
| b. $-\tan^2 28$ | q- 0               |
| c. $-\tan 45$   | r- $1 - \cot^2 28$ |
| d. $-\cos 90$   | s- 1               |

9. Calculate the value of  $\frac{(\sin^2 26 + \cos^2 26)}{(\sin^2 65 + \sin^2 25)}$

10. Find the value of:  $(13 \operatorname{cosec}^2 (90 - A) - 13 \cot^2 (90 - A))$

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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.	$\frac{1}{2}$
2.	Angle A = $30^{\circ}$ , Angle C = $60^{\circ}$
3.	b) False
4.	b) False
5.	a) 1
6.	$30.67^{\circ}$
7.	10
8.	a.-r b.-p c.-s d.-q
9.	1
10.	13