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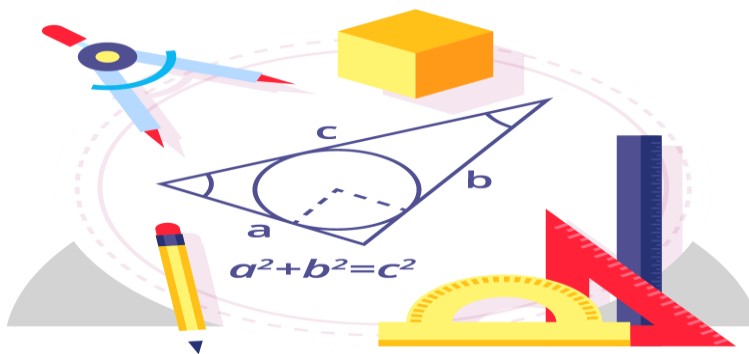
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TRIGONOMETRY WORKSHEETS

1. In a triangle ABC, right-angled at B, $AC = 5$ inch, $AB = 3$ inch. Find:
 $\sin A$, $\cos A$
2. If $\tan A = \frac{3}{4}$, Find: $\sin A$ and $\cos A$
3. Given $17\sin A = 15$, the value of $\cot A$ is:
 - a) $\frac{17}{15}$
 - b) $\frac{8}{15}$
 - c) $\frac{17}{8}$
 - d) $\frac{8}{17}$
4. If $\cos A = \cos B$, then angle $A =$ angle B .
 - a) True
 - b) False
5. In a right-angled triangle ABC, right-angled at A, $\cot A$ is always less than 1.
 - a) True
 - b) False



6. If $\tan A = 1$, then

a) $\cot A = 1$

b) $\sec A = \frac{1}{2}$

c) $\operatorname{cosec} A = \frac{1}{2}$

d) All of the above

7. In triangle ABC, $AB = 4$, $BC = 5$ and $AC = 3$. Then:

a) $\angle A = 90^\circ$

b) $\angle B = 90^\circ$

c) $\angle C = 90^\circ$

d) Nothing can be said

8. In a triangle, PQR, right-angled at Q, $PQ = 35$ and $PR = 37$. Find $\tan R$.



9. In a triangle XYZ, right-angled at Y such that $XZ = 5$ and $XY = 3$.

Match the following on the basis of the given data:

a-cot X $p-\frac{4}{3}$

b-sin X $q-\frac{3}{5}$

c-tan X $r-\frac{3}{4}$

d-cos X $s-\frac{4}{5}$

10. In a triangle ABC, right-angled at B, $AB = 12$ and $AC - BC = 8$.
Find $\sin A$ and $\sin C$



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- 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. | $\sin A = \frac{4}{5}$ $\cos A = \frac{3}{5}$ |
| 2. | $\sin A = \frac{3}{5}$ and $\cos A = \frac{4}{5}$ |
| 3. | $\frac{8}{15}$ |
| 4. | True |
| 5. | False |
| 6. | a. $\cot A = 1$ |
| 7. | a. angle $A = 90^\circ$ |
| 8. | $\frac{35}{12}$ |
| 9. | a.-r, b.-s, c.-p, d.-q |
| 10. | $\sin A = \frac{5}{13}$ and $\sin C = \frac{12}{13}$ |

FUN FACT

1. There are total of 8 Trigonometric identities which are called fundamental identities.
2. 3 out of 8 Trigonometric identities are called Pythagorean identities because they are based on Pythagorean Theorem.
3. The word "Trigonometry" means "Triangle Measure".

