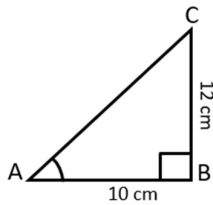


Trigonometry Worksheet – 1

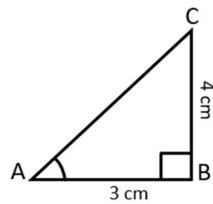
1. The value of Tan A is _____.



- a) $\frac{10}{12}$
 c) $\frac{5}{6}$

- b) $\frac{6}{5}$
 d) None of these

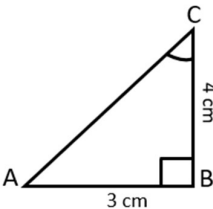
2. The value of Cos A is _____.



- a) $\frac{4}{3}$
 c) $\frac{3}{5}$

- b) $\frac{3}{4}$
 d) $\frac{5}{3}$

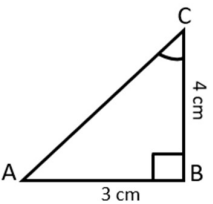
3. The value of Sin C is _____.



- a) $\frac{4}{3}$
 c) $\frac{5}{3}$

- b) $\frac{3}{4}$
 d) $\frac{3}{5}$

4. The value of Cosec C is _____.

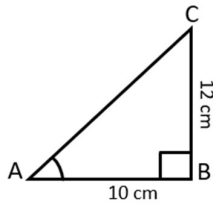


- a) $\frac{4}{5}$

- b) $\frac{3}{4}$

c) $\frac{5}{3}$

5. The value of Cot A is _____.



a) $\frac{10}{12}$

c) $\frac{5}{6}$

d) $\frac{3}{5}$

6. $\sin^2 A + \cos^2 A = 0$. Mark True / False.

a) True

7. $\tan A = \frac{\sin A}{\cos A}$. Mark True / False.

a) True

8. $\sin A = \frac{1}{\cos A}$. Mark True / False.

a) True

9. $\operatorname{cosec} A = \frac{1}{\sin A}$. Mark True / False.

a) True

10. $\cot A = \frac{1}{\tan A}$. Mark True / False.

a) True

11. $\sec^2 A - \tan^2 A =$ _____.

a) 0

c) 1

12. $1 + \cot^2 A =$ _____.

a) $\sec^2 A$

c) $\tan^2 A$

13. $\sin A =$ _____.

a) $\frac{\text{Base}}{\text{Hypotenuse}}$

c) $\frac{\text{Heigh}}{\text{Base}}$

14. $\sec A =$ _____.

a) $\frac{\text{Hypotenuse}}{\text{Base}}$

c) $\frac{\text{Height}}{\text{Base}}$

b) $\frac{6}{5}$

d) None of these

b) False

b) False

b) False

b) False

b) False

b) -1

d) None of these

b) $\cos^2 A$

d) $\operatorname{cosec}^2 A$

b) $\frac{\text{Hypotenuse}}{\text{Base}}$

d) $\frac{\text{Heigh}}{\text{Hypotenuse}}$

b) $\frac{\text{Base}}{\text{Hypotenuse}}$

d) $\frac{\text{Height}}{\text{Hypotenuse}}$

15. $\cot A = \underline{\hspace{2cm}}$?

a) $\frac{\textit{Hypotenuse}}{\textit{Base}}$

b) $\frac{\textit{Base}}{\textit{Height}}$

c) $\frac{\textit{Height}}{\textit{Base}}$

d) $\frac{\textit{Height}}{\textit{Hypotenuse}}$

16. If $\sin A = \frac{1}{2}$, then the value of $\tan A = \underline{\hspace{2cm}}$.

a) $\sqrt{3}$

b) 2

c) $\frac{1}{\sqrt{3}}$

d) $\frac{\sqrt{3}}{2}$

17. If $\tan A = 1$, then the value of $\cos A = \underline{\hspace{2cm}}$.

a) $\sqrt{3}$

b) $\sqrt{2}$

c) $\frac{1}{\sqrt{2}}$

d) $\frac{\sqrt{3}}{2}$

18. If $\cos A = 1$, then the value of $\cot A = \underline{\hspace{2cm}}$.

a) $\sqrt{3}$

b) $\sqrt{2}$

c) $\frac{1}{\sqrt{2}}$

d) Not defined

19. If $\cos A = \frac{4}{5}$, then the value of $\tan A = \underline{\hspace{2cm}}$.

a) $\frac{3}{5}$

b) $\frac{3}{4}$

c) $\frac{5}{3}$

d) $\frac{4}{3}$

20. The value of $\sin 45^\circ + \cos 45^\circ = \underline{\hspace{2cm}}$.

a) $\frac{1}{\sqrt{2}}$

b) $\frac{3}{\sqrt{2}}$

c) 1

d) $\sqrt{2}$