

Trigonometry

(Answer ID # 0134511)

Find the exact value for each trigonometric function.

1. $\cos 60^\circ$	2. $\sin 45^\circ$	3. $\tan 30^\circ$
4. $\cos 30^\circ$	5. $\tan 45^\circ$	6. $\sin 60^\circ$
7. $\csc 840^\circ$	8. $\sec (-765^\circ)$	9. $\cot 315^\circ$
10. $\sec (-450^\circ)$	11. $\csc 60^\circ$	12. $\sin (-585^\circ)$
13. $\cot (-840^\circ)$	14. $\tan 450^\circ$	15. $\cos 765^\circ$
16. $\sec 150^\circ$	17. $\csc 960^\circ$	18. $\cos 720^\circ$
19. $\tan 0^\circ$	20. $\sin (-405^\circ)$	21. $\cot (-675^\circ)$
22. $\cos 450^\circ$	23. $\cot (-150^\circ)$	24. $\tan 180^\circ$
25. $\csc (-315^\circ)$	26. $\sec 540^\circ$	27. $\sin (-225^\circ)$
28. $\cot (-225^\circ)$	29. $\sin 405^\circ$	30. $\sec 945^\circ$

Answer Key 0134511

1 $\frac{1}{2}$

2 $\frac{\sqrt{2}}{2}$

3 $\frac{\sqrt{3}}{3}$

4 $\frac{\sqrt{3}}{2}$

5 1

6 $\frac{\sqrt{3}}{2}$

7 $\frac{2\sqrt{3}}{3}$

8 $\sqrt{2}$

9 -1

10 undefined

11 $\frac{2\sqrt{3}}{3}$

12 $\frac{\sqrt{2}}{2}$

13 $\frac{\sqrt{3}}{3}$

14 undefined

15 $\frac{\sqrt{2}}{2}$

16 $\frac{-2\sqrt{3}}{3}$

17 $\frac{-2\sqrt{3}}{3}$

18 1

19 0

20 $\frac{-\sqrt{2}}{2}$

21 1

22 0

23 $\sqrt{3}$

24 0

25 $\sqrt{2}$

26 -1

27 $\frac{\sqrt{2}}{2}$

28 -1

29 $\frac{\sqrt{2}}{2}$

30 -1

30 $-\sqrt{2}$