

Chapter 2: Trigonometric Angles - Worksheet & Review

Objective: I can evaluate trigonometric functions at special angles and use reference and coterminal angles to determine exact values.

1. Find the exact value of $\sin 30^\circ$.	2. Find the exact value of $\cos 60^\circ$.
3. Find the exact value of $\tan 45^\circ$.	4. Find the exact value of $\csc 30^\circ$.
5. Find the exact value of $\sec 60^\circ$.	6. Find the exact value of $\cot 45^\circ$.
7. Find the exact value of $\sin 120^\circ$.	8. Find the exact value of $\cos 135^\circ$.
9. Find the exact value of $\tan 150^\circ$.	10. Find the exact value of $\sin 225^\circ$.

Chapter 2: Trigonometric Angles - Worksheet & Review

Objective: I can evaluate trigonometric functions at special angles and use reference and coterminal angles to determine exact values.

11. Find the exact value of $\cos 300^\circ$.	12. Find the exact value of $\tan 330^\circ$.
13. Find the exact value of $\sec 120^\circ$.	14. Find the exact value of $\csc 270^\circ$.
15. Find the exact value of $\cot 315^\circ$.	16. Find the exact value of $\sin\left(\frac{\pi}{6}\right)$.
17. Find the exact value of $\cos\left(\frac{2\pi}{3}\right)$.	18. Find the exact value of $\tan\left(\frac{3\pi}{4}\right)$.
19. Find the exact value of $\csc\left(\frac{5\pi}{6}\right)$.	20. Find the exact value of $\sec\left(\frac{7\pi}{4}\right)$.

Chapter 2: Trigonometric Angles - Worksheet & Review

Objective: I can evaluate trigonometric functions at special angles and use reference and coterminal angles to determine exact values.

21. Find the exact value of $\cot\left(\frac{11\pi}{6}\right)$.	22. Find the exact value of $\sin\left(\frac{5\pi}{3}\right)$.
23. Find the exact value of $\cos\left(\frac{4\pi}{3}\right)$.	24. Find the exact value of $\tan\left(\frac{7\pi}{6}\right)$.
25. Find the exact value of $\sec\left(\frac{3\pi}{2}\right)$.	26. Find the reference angle for 210° .
27. Find the reference angle for 315° .	28. Find the reference angle for $\frac{7\pi}{6}$.
29. Find the reference angle for $\frac{5\pi}{4}$.	30. Find the reference angle for $\frac{11\pi}{6}$.

Chapter 2: Trigonometric Angles - Worksheet & Review

Objective: I can evaluate trigonometric functions at special angles and use reference and coterminal angles to determine exact values.

31. Find the least positive coterminal angle with 765° .	32. Find the least positive coterminal angle with -150° .
33. Find the least positive coterminal angle with $\frac{19\pi}{6}$.	34. Find the least positive coterminal angle with $-\frac{7\pi}{4}$.
35. Find the least positive coterminal angle with $\frac{25\pi}{6}$.	36. An angle lies in Quadrant II with reference angle 30° . Find $\sin \theta$.
37. An angle lies in Quadrant III with reference angle 45° . Find $\cos \theta$.	38. An angle lies in Quadrant IV with reference angle 60° . Find $\tan \theta$.
39. An angle lies in Quadrant III with reference angle $\frac{\pi}{6}$. Find $\csc \theta$.	40. An angle lies in Quadrant II with reference angle $\frac{\pi}{4}$. Find $\sec \theta$.

Chapter 2: Trigonometric Angles - Worksheet & Review

Objective: I can evaluate trigonometric functions at special angles and use reference and coterminal angles to determine exact values.

41. Evaluate exactly: $\sin 30^\circ + \cos 60^\circ$.	42. Evaluate exactly: $2 \cos^2 45^\circ$.
43. Evaluate exactly: $\tan 45^\circ \sec 60^\circ$.	44. Evaluate exactly: $\sin 150^\circ \cos 60^\circ$.
45. Evaluate exactly: $\cos 135^\circ \sin 225^\circ$.	46. Evaluate exactly: $\sin^2 60^\circ + \cos^2 60^\circ$.
47. Evaluate exactly: $\tan 30^\circ \cot 30^\circ$.	48. Evaluate exactly: $\sec 120^\circ + \csc 30^\circ$.
49. Evaluate exactly: $\sin 330^\circ - \cos 120^\circ$.	50. Evaluate exactly: $2 \sin 45^\circ \cos 45^\circ$.