

CHAPTER 7 | REVIEW

■ CONCEPT CHECK

- (a) State the reciprocal identities.
(b) State the Pythagorean identities.
(c) State the even-odd identities.
(d) State the cofunction identities.
- Explain the difference between an equation and an identity.
- How do you prove a trigonometric identity?
- (a) State the Addition Formulas for Sine, Cosine, and Tangent.
(b) State the Subtraction Formulas for Sine, Cosine, and Tangent.

- (a) State the Double-Angle Formulas for Sine, Cosine, and Tangent.
(b) State the formulas for lowering powers.
(c) State the Half-Angle Formulas.
- (a) State the Product-to-Sum Formulas.
(b) State the Sum-to-Product Formulas.
- Explain how you solve a trigonometric equation by factoring.
- What identity would you use to solve the equation $\cos x - \sin 2x = 0$?

■ EXERCISES

1–24 ■ Verify the identity.

- $\sin \theta (\cos \theta + \tan \theta) = \sec \theta$
- $(\sec \theta - 1)(\sec \theta + 1) = \tan^2 \theta$
- $\cos^2 x \csc x - \csc x = -\sin x$
- $\frac{1}{1 - \sin^2 x} = 1 + \tan^2 x$
- $\frac{\cos^2 x - \tan^2 x}{\sin^2 x} = \cot^2 x - \sec^2 x$
- $\frac{1 + \sec x}{\sec x} = \frac{\sin^2 x}{1 - \cos x}$
- $\frac{\cos^2 x}{1 - \sin x} = \frac{\cos x}{\sec x - \tan x}$
- $(1 - \tan x)(1 - \cot x) = 2 - \sec x \csc x$
- $\sin^2 x \cot^2 x + \cos^2 x \tan^2 x = 1$
- $(\tan x + \cot x)^2 = \csc^2 x \sec^2 x$
- $\frac{\sin 2x}{1 + \cos 2x} = \tan x$
- $\frac{\cos(x + y)}{\cos x \sin y} = \cot y - \tan x$
- $\tan \frac{x}{2} = \csc x - \cot x$
- $\frac{\sin(x + y) + \sin(x - y)}{\cos(x + y) + \cos(x - y)} = \tan x$
- $\sin(x + y) \sin(x - y) = \sin^2 x - \sin^2 y$
- $\csc x - \tan \frac{x}{2} = \cot x$
- $1 + \tan x \tan \frac{x}{2} = \sec x$
- $\frac{\sin 3x + \cos 3x}{\cos x - \sin x} = 1 + 2 \sin 2x$

19. $\left(\cos \frac{x}{2} - \sin \frac{x}{2}\right)^2 = 1 - \sin x$

20. $\frac{\cos 3x - \cos 7x}{\sin 3x + \sin 7x} = \tan 2x$

21. $\frac{\sin 2x}{\sin x} - \frac{\cos 2x}{\cos x} = \sec x$

22. $(\cos x + \cos y)^2 + (\sin x - \sin y)^2 = 2 + 2 \cos(x + y)$

23. $\tan\left(x + \frac{\pi}{4}\right) = \frac{1 + \tan x}{1 - \tan x}$

24. $\frac{\sec x - 1}{\sin x \sec x} = \tan \frac{x}{2}$

 25–28 ■ (a) Graph f and g . (b) Do the graphs suggest the equation $f(x) = g(x)$ is an identity? Prove your answer.

25. $f(x) = 1 - \left(\cos \frac{x}{2} - \sin \frac{x}{2}\right)^2$, $g(x) = \sin x$

26. $f(x) = \sin x + \cos x$, $g(x) = \sqrt{\sin^2 x + \cos^2 x}$

27. $f(x) = \tan x \tan \frac{x}{2}$, $g(x) = \frac{1}{\cos x}$

28. $f(x) = 1 - 8 \sin^2 x + 8 \sin^4 x$, $g(x) = \cos 4x$

29–30 ■ (a) Graph the function(s) and make a conjecture, and (b) prove your conjecture.

29. $f(x) = 2 \sin^2 3x + \cos 6x$

30. $f(x) = \sin x \cot \frac{x}{2}$, $g(x) = \cos x$

 31–48 ■ Solve the equation in the interval $[0, 2\pi)$.

31. $4 \sin \theta - 3 = 0$

32. $5 \cos \theta + 3 = 0$

33. $\cos x \sin x - \sin x = 0$

34. $\sin x - 2 \sin^2 x = 0$

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M Tight



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