Trig Review Ch. 7 (if time)

Quiz 7.5-7.7
Test Ch. 7 Wed.

For Wed. SGR o 11-39, 42

Solve each equation for $0° \leq x < 360°$.

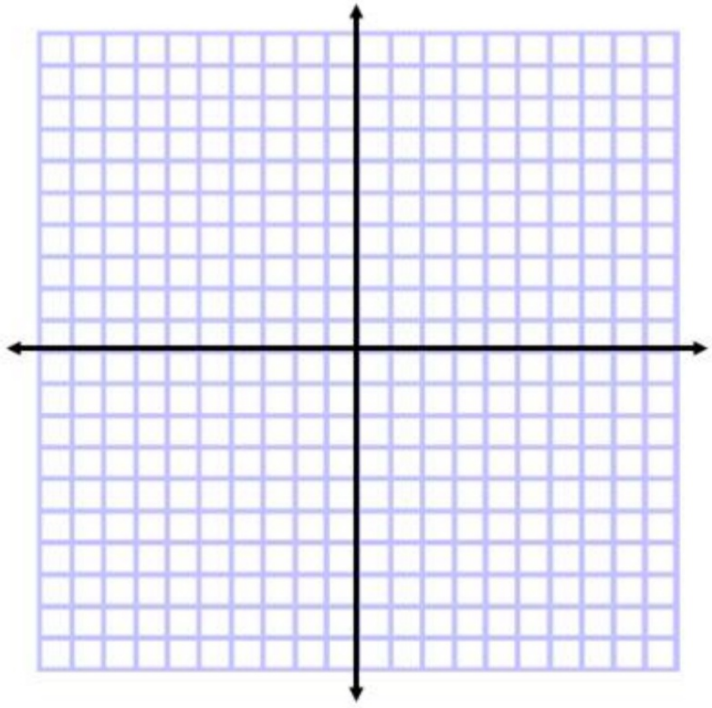
34. $\tan x + 1 = \sec x$

Solve each equation for all real values of x.

37. $\sin x \tan x - \frac{\sqrt{2}}{2} \tan x = 0$

Find the distance between the point with the given coordinates and the line with the given equation.

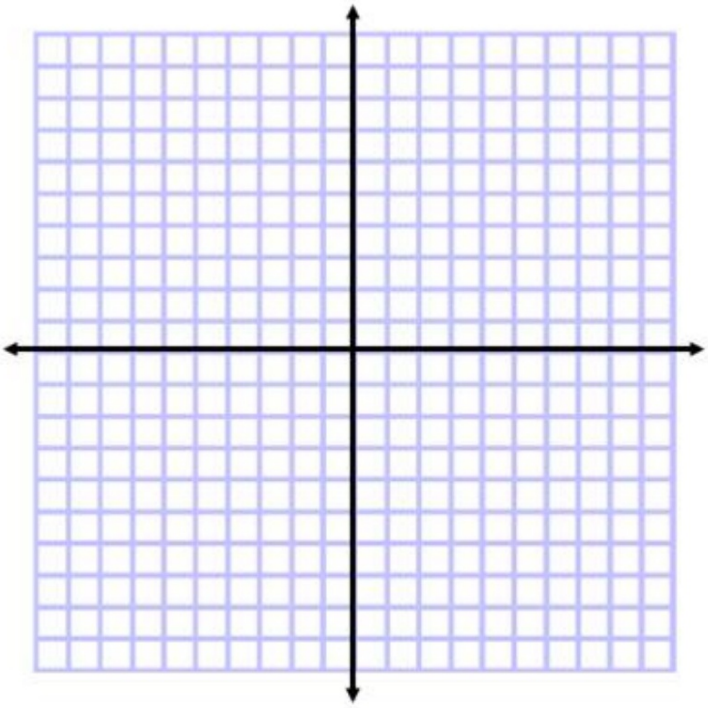
48. $(5, 6), 2x - 3y + 2 = 0$



Find the distance between the parallel lines with the given equations.

52. $y = \frac{x}{3} - 6$

$y = \frac{x}{3} + 2$



Use the given information to determine the trigonometric value. In each case, $0° < \theta < 90°$.

11. If $\sin\theta = \frac{1}{2}$, find $\csc\theta$.

12. If $\tan\theta = 4$, find $\sec\theta$.

13. If $\csc\theta = \frac{5}{3}$, find $\cos\theta$.

Verify that each equation is an identity.

16. $\cos^2 x + \tan^2 x \cos^2 x = 1$

17. $\dfrac{1 - \cos\theta}{1 + \cos\theta} = (\csc\theta - \cot\theta)^2$

Use sum or difference identities to find the exact value of each trigonometric function.

20. $\cos 195°$ **21.** $\cos 15°$

Find each exact value if $0 < x < \frac{\pi}{2}$ and $0 < y < \frac{\pi}{2}$.

24. $\cos(x - y)$ if $\sin x = \frac{7}{25}$ and $\cos y = \frac{2}{3}$

REVIEW EXERCISES

Use a half-angle identity to find the exact value of each function.

26. $\cos 75^\circ$ **27.** $\sin \frac{7\pi}{8}$

If θ is an angle in the first quadrant and $\cos\theta = \frac{3}{5}$, find the exact value of each function.

30. $\sin 2\theta$

31. $\cos 2\theta$