

Exact Values/Graphing Practice Quiz

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Find the exact value of each trigonometric function.

1) $\sin \frac{13\pi}{4}$

2) $\sin -\frac{31\pi}{6}$

3) $\cos -\frac{14\pi}{3}$

4) $\sin -\frac{21\pi}{4}$

5) $\cos \frac{11\pi}{4}$

6) $\tan 3\pi$

7) $\tan -\frac{29\pi}{6}$

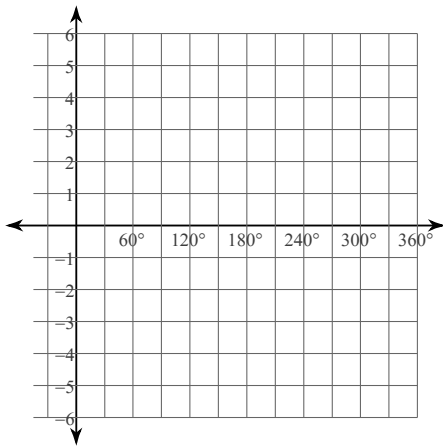
8) $\sin -\frac{29\pi}{6}$

9) $\tan -\frac{8\pi}{3}$

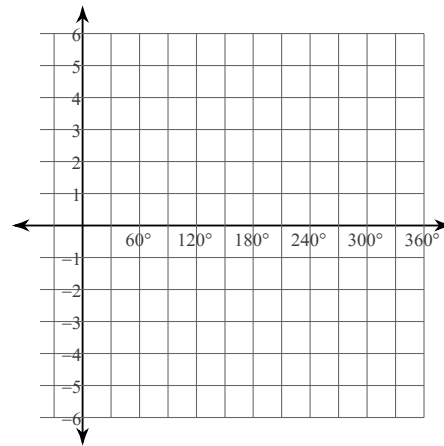
10) $\cos \frac{4\pi}{3}$

Graph each function using degrees.

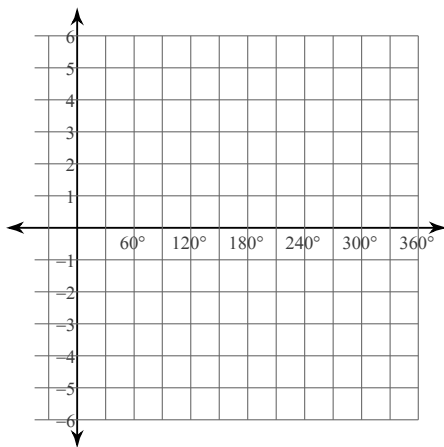
11) $y = -2 + 2\cos(2\theta - 90)$



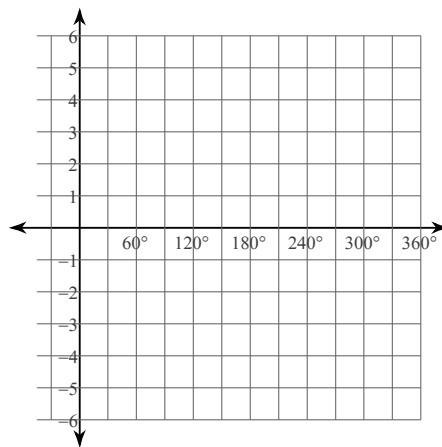
12) $y = 2\cos(3\theta + 30) - 1$



$$13) y = 2\tan(2\theta + 60) + 1$$

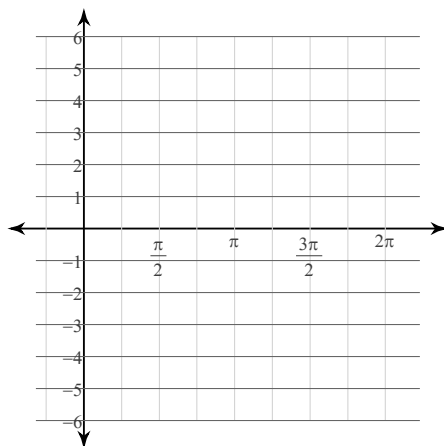


$$14) y = 4\sin(2\theta - 30) - 2$$

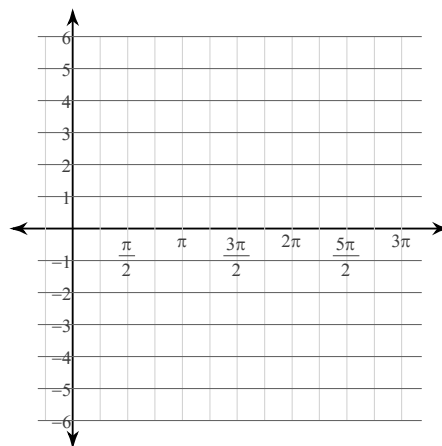


Graph each function using radians.

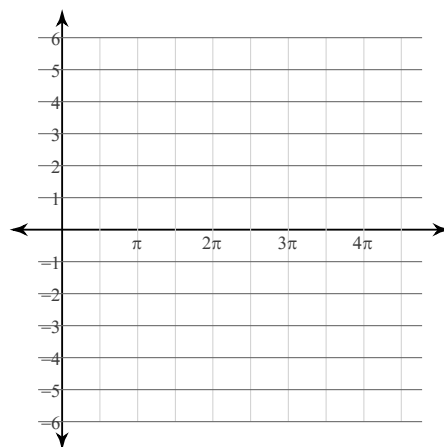
$$15) y = 3\cos\left(4\theta - \frac{\pi}{4}\right) - 2$$



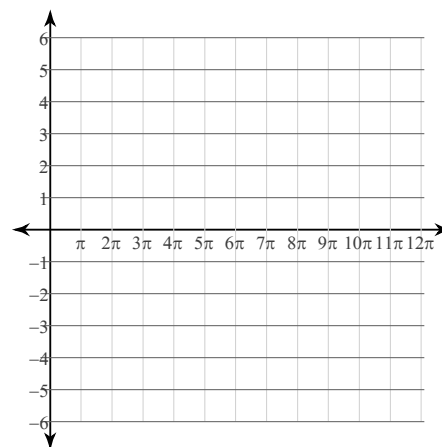
$$16) y = 2 + 2\tan\left(\frac{\theta}{2} - \frac{\pi}{4}\right)$$



$$17) y = 3\tan\left(\frac{\theta}{3} + \frac{\pi}{6}\right)$$



$$18) y = 3\sin\left(\frac{\theta}{4} + \frac{\pi}{4}\right) + 2$$



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Find the exact value of each trigonometric function.

1) $\sin \frac{13\pi}{4} = -\frac{\sqrt{2}}{2}$

2) $\sin -\frac{31\pi}{6} = \frac{1}{2}$

3) $\cos -\frac{14\pi}{3} = -\frac{1}{2}$

4) $\sin -\frac{21\pi}{4} = \frac{\sqrt{2}}{2}$

5) $\cos \frac{11\pi}{4} = -\frac{\sqrt{2}}{2}$

6) $\tan 3\pi = 0$

7) $\tan -\frac{29\pi}{6} = \frac{\sqrt{3}}{3}$

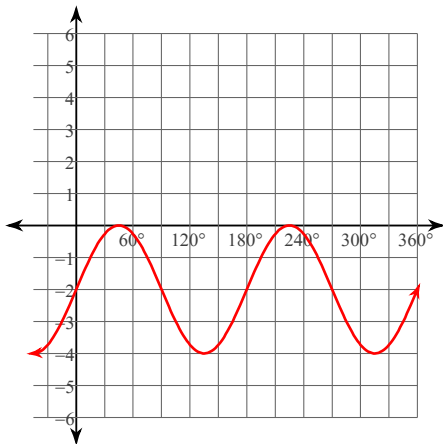
8) $\sin -\frac{29\pi}{6} = -\frac{1}{2}$

9) $\tan -\frac{8\pi}{3} = \sqrt{3}$

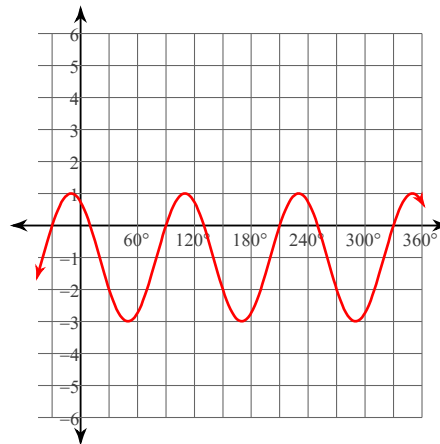
10) $\cos \frac{4\pi}{3} = -\frac{1}{2}$

Graph each function using degrees.

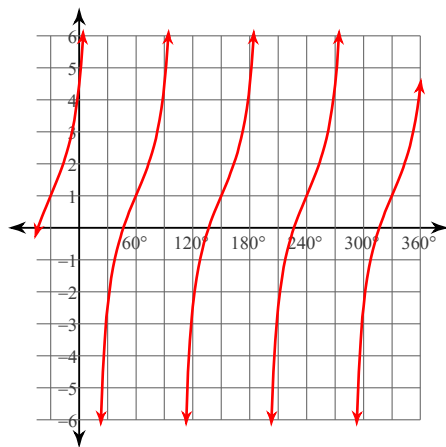
11) $y = -2 + 2\cos(2\theta - 90)$



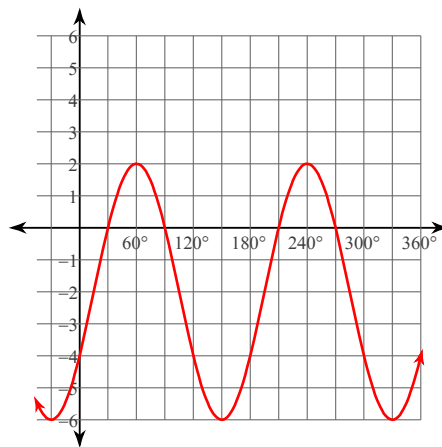
12) $y = 2\cos(3\theta + 30) - 1$



$$13) y = 2\tan(2\theta + 60) + 1$$

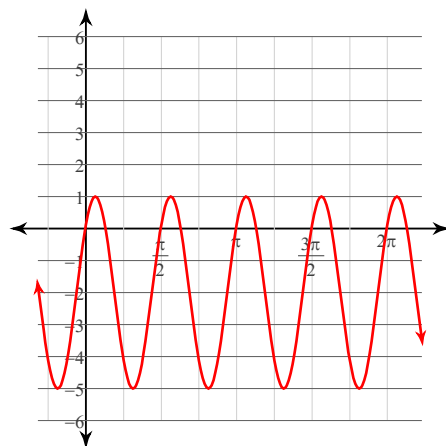


$$14) y = 4\sin(2\theta - 30) - 2$$

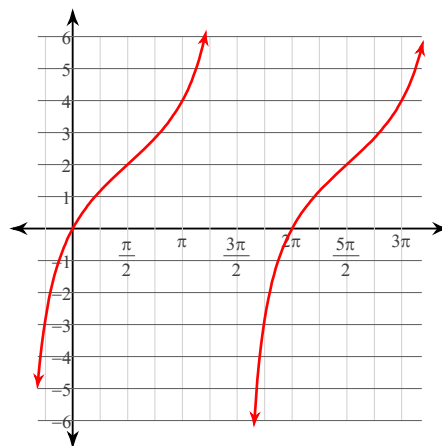


Graph each function using radians.

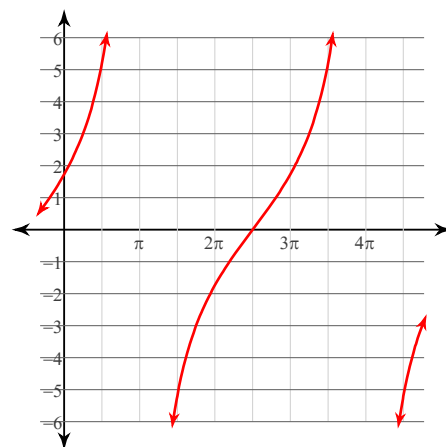
$$15) y = 3\cos\left(4\theta - \frac{\pi}{4}\right) - 2$$



$$16) y = 2 + 2\tan\left(\frac{\theta}{2} - \frac{\pi}{4}\right)$$



$$17) y = 3\tan\left(\frac{\theta}{3} + \frac{\pi}{6}\right)$$



$$18) y = 3\sin\left(\frac{\theta}{4} + \frac{\pi}{4}\right) + 2$$

