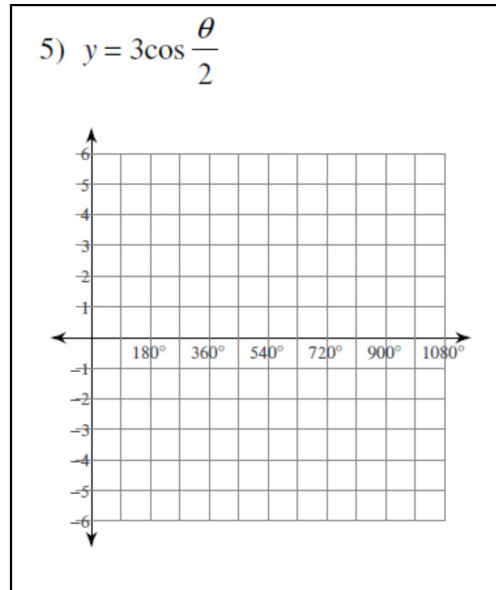
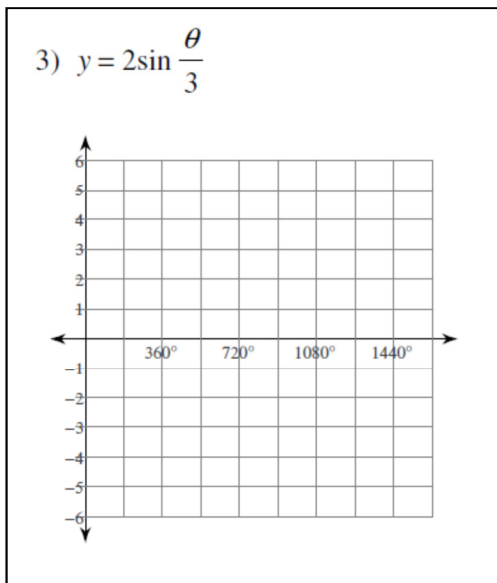
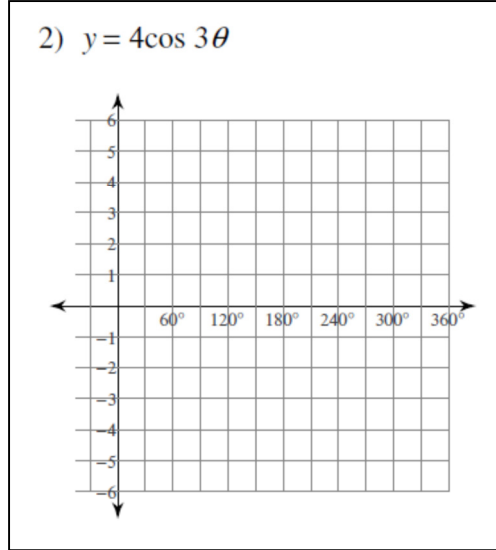
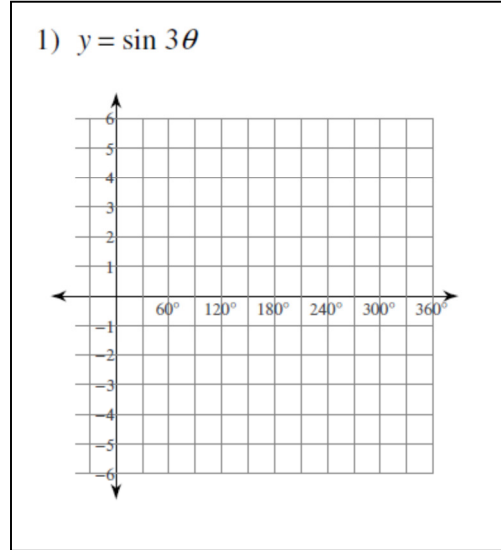


Find the amplitude, frequency and period of each function in **degrees**. Then graph the function.



Solve for  $0 \leq \theta < 360^\circ$ . Give answers to the nearest tenth of a degree. *Hint: Draw graphs to help find the angles.*

6.  $2 \tan \theta + 1 = 0$

7.  $5 \csc \theta + 6 = 0$

Solve for  $0 \leq x < 2\pi$ . Give answer to the nearest hundredth of a radian. *Hint: Draw graphs to help find the angles.*

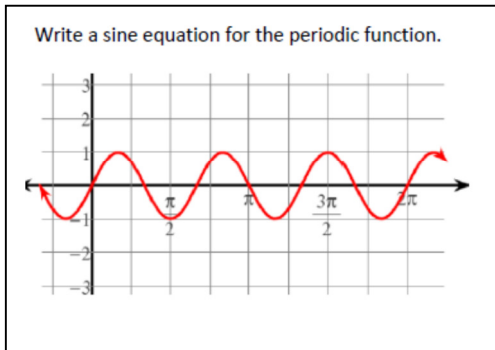
8.  $\cos x = -0.8$

9.  $3 \sin x + 4 = 2$

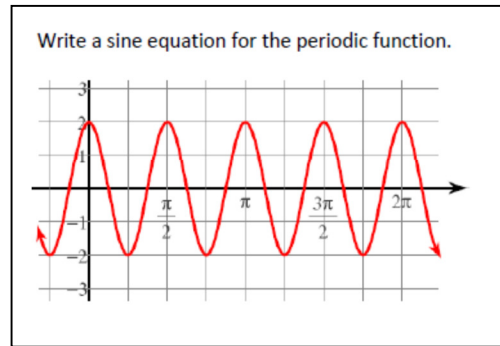
10.  $4 \sin x + 3 = -1$

11.  $\cos x + 5 = 5$

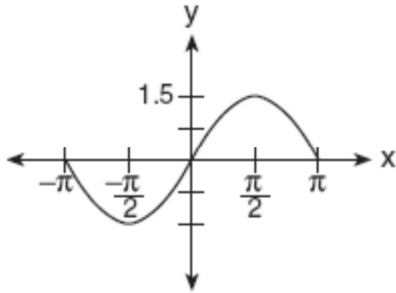
12.



13.



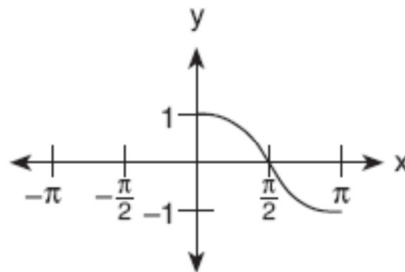
14. A radio transmitter sends a radio wave from the top of a 50-foot tower. The wave is represented by the accompanying graph.



What is the equation of this radio wave?

- (1)  $y = \sin x$                       (3)  $y = \sin 1.5x$   
 (2)  $y = 1.5 \sin x$                 (4)  $y = 2 \sin x$

15. Which equation is represented by the accompanying graph?



- (1)  $y = \cos x$                       (3)  $y = \cos 2x$   
 (2)  $y = \cos \frac{1}{2}x$                 (4)  $y = \frac{1}{2} \cos x$

Find the amplitude, frequency and period of each function in **radians**. Then graph the function. There is no graph provided because it is probably easier to draw your own

16.  $y = 2 \sin 3x$

17.  $y = -3 \cos\left(\frac{x}{2}\right)$