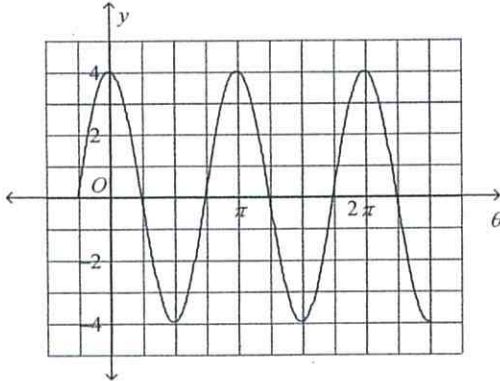


Graph one cycle of the function.

1. $y = 4 \cos \frac{1}{6} \theta$

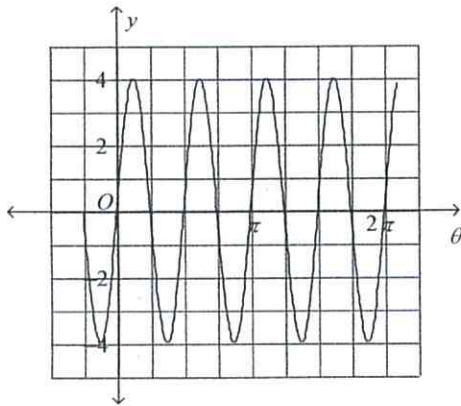
2. Write an equation of the cosine function with amplitude 2 and period $\frac{4\pi}{3}$.

3. Write a cosine function for the graph.



4. Find the period, range, and amplitude of the cosine function $y = 3 \cos 8t$.

5. Write the equation for the sine function shown below.



6. a. Sketch at least one cycle of a sine curve with amplitude 4 and period of $\frac{\pi}{3}$. Assume $a > 0$.

b. Write an equation for the graph.

7. Sketch one cycle of $y = -2 \sin 3\theta$.

8. A particular sound wave can be graphed using the function $y = 3 \sin 7x$. Find the amplitude and period of the function.

Find the measure of an angle between 0° and 360° coterminal with each given angle.

9. -100°

10. 372°

Find the exact values of the cosine and sine of each angle. *and tangent. Graph L, draw + label reference triangle*

11. 45°

12. -225°
 -120°

13. $\frac{5\pi}{6}$ radians

Write each measure in radians. Express your answer in terms of π .

14. 45°

15. 90°