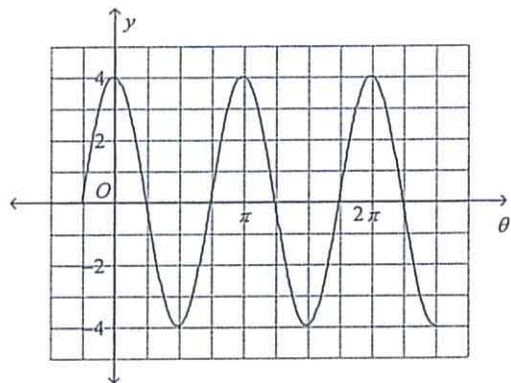


Graph one cycle of the function. Show table.

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

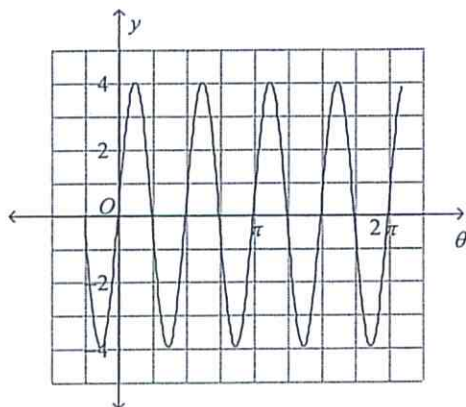
2. Write an equation of the cosine function with amplitude 2 and period $\frac{4\pi}{3}$.

3. Write a cosine function for the graph.



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

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



6. Write an equation for the graph of a sine curve with amplitude 4 and period of $\frac{\pi}{3}$. Assume $a > 0$.

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

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. Then find the reference angle.

9. -100°

10. 372°

Find the exact values of the cos, sin and tan of each angle.

11. 45°

12. -120°

13. 150°

14. 90°

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

15. 45°

16. 90°

Write each measure in degrees.

17. $\frac{5\pi}{6}$

18. $\frac{3\pi}{4}$

Simplify the radicals

19. $\left(\frac{2}{5}\right)^{\frac{1}{2}}$

20. $\left(\frac{1}{3}\right)^{\frac{3}{6}}$