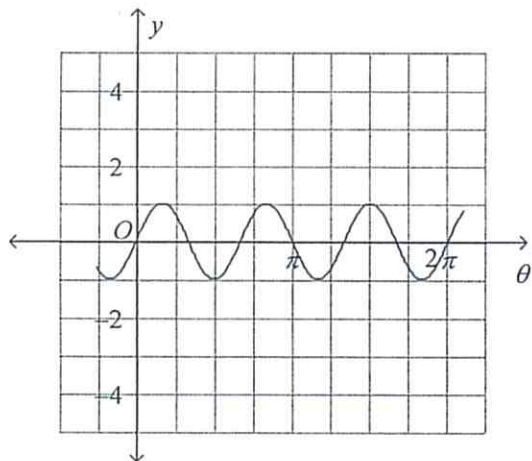
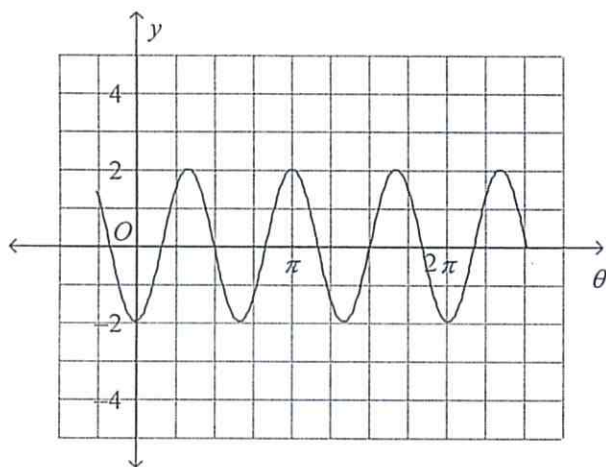


13. Write the equation for the sine function shown below.



Write a cosine function for the graph.

14.



15. Write an equation of the cosine function with amplitude 2 and period 4π .
16. Sketch the graph of the tangent curve $y = \tan 2x$ in the interval from 0 to 2π .
17. Identify the period for $y = \tan \frac{3\pi}{4} \theta$ and tell where two asymptotes occur for the function.
18. Write an equation for the translation 3 units down of $y = \sin x$.

Graph the function in the interval from 0 to 2π .

19. $y = -2 \cos \left(x - \frac{\pi}{2} \right) - 1$