

Name: _____

Date: _____

Learning Goal 5.1	Graphing primary trigonometric functions, including transformations and characteristics
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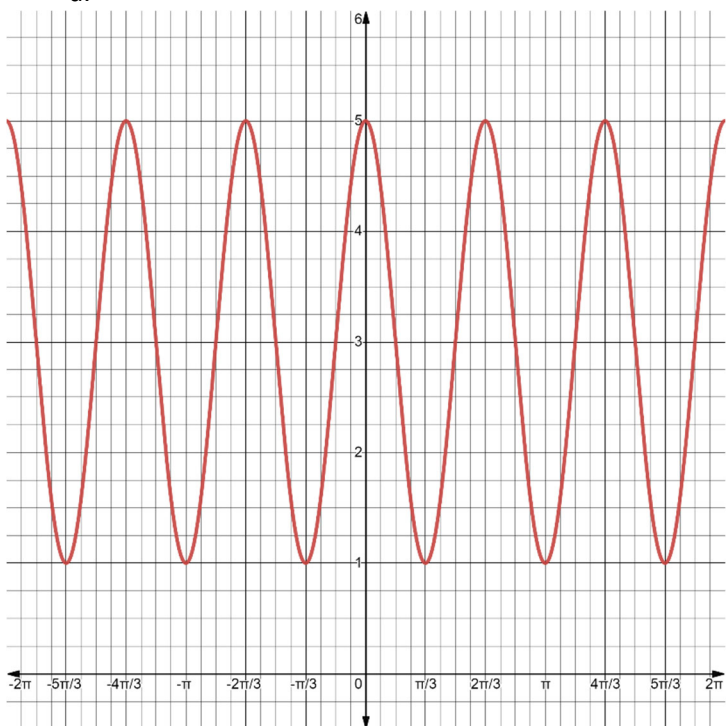
More Questions – Solutions

1. Fill out the table for the function $y = 3 \sin(2\pi x - 8) - 2$.

Vertical Displacement	Amplitude	Max	Min
2 ↓	3	1	-5
Period	Phase Shift	Period Start	Period End
1	$\frac{4}{\pi} \rightarrow$	$\frac{4}{\pi}$	$\frac{4 + \pi}{\pi}$

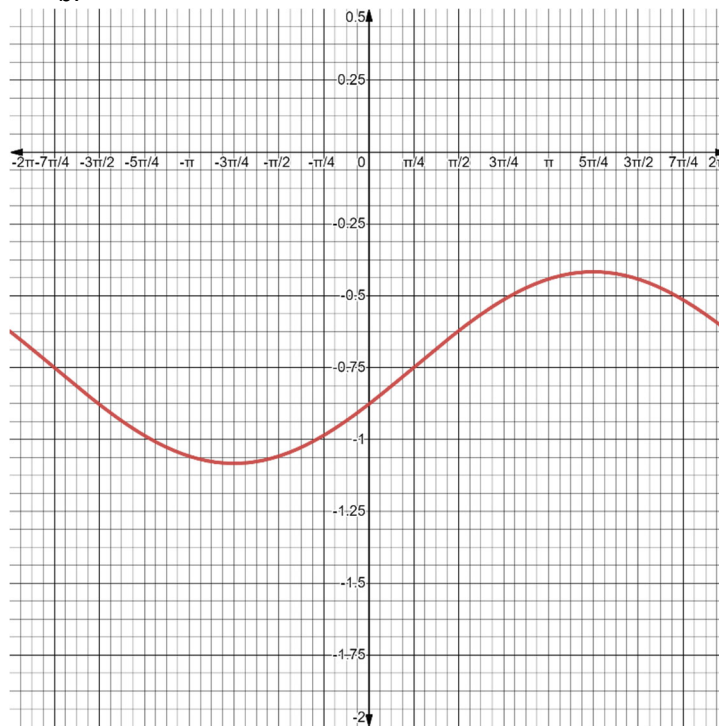
2. Find an equation for each of the following functions:

a.



$$y = 2 \sin 3 \left(x - \frac{\pi}{2} \right) + 3$$

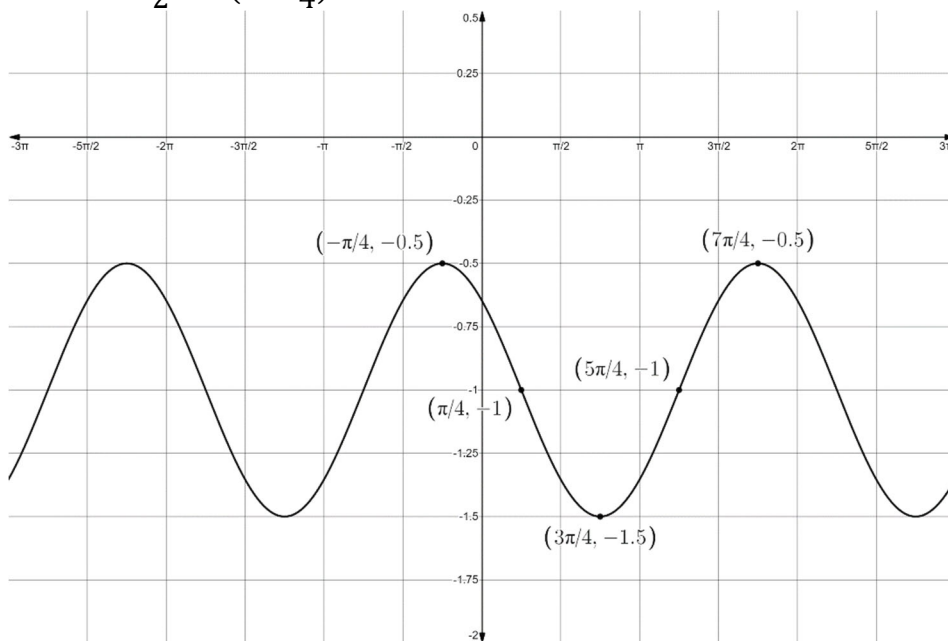
b.



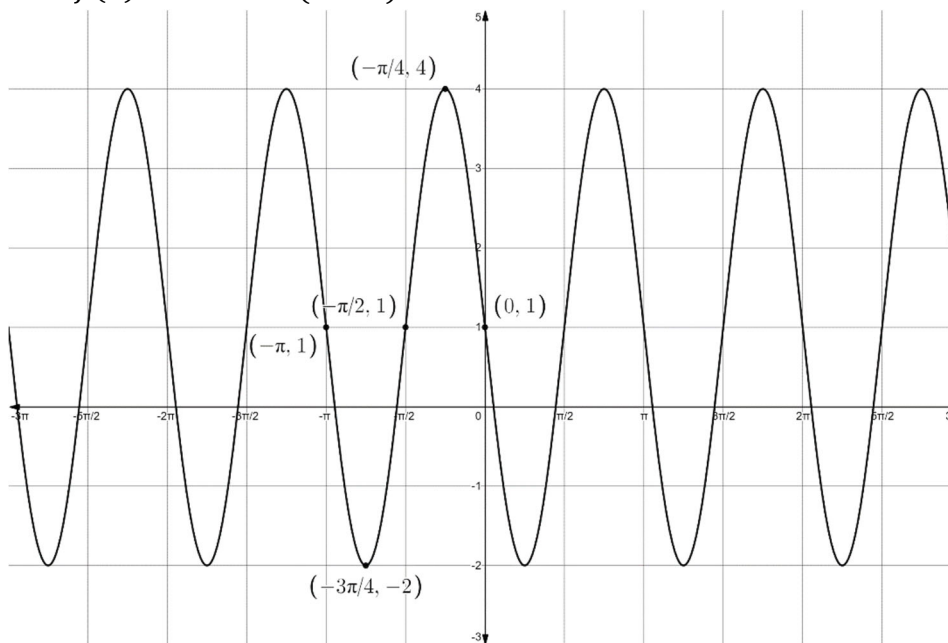
$$y = \frac{1}{3} \cos \frac{1}{2} \left(x - \frac{5\pi}{4} \right) - \frac{3}{4}$$

3. Sketch two cycles of the graph of the functions below. State the coordinates of 5 points on the graph.

a. $y = \frac{1}{2} \cos\left(x + \frac{\pi}{4}\right) - 1$



b. $f(x) = -3 \sin 2(x + \pi) + 1$



c. $g(x) = \frac{3}{2} \sin \frac{2\pi}{5}(x - 4)$

