Name: _____ Date: _____

Learning Goal 5.1	Graphing primary trigonometric functions, including transformations and characteristics

Summary of Transformations of the form $y = a\sin(b(x-c)) + d$ and $y = a\cos(b(x-c)) + d$

Amplitude | Phase Shift

Vertical Displacement | Maximum | Minimum

Period | Period Start | Period End

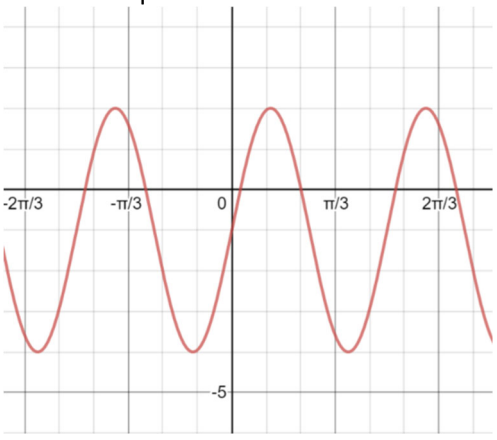
Example Fill out the table for the function $y = 4\sin(2x - 10) + 5$.

Vertical Displacement | Amplitude | Max | Min

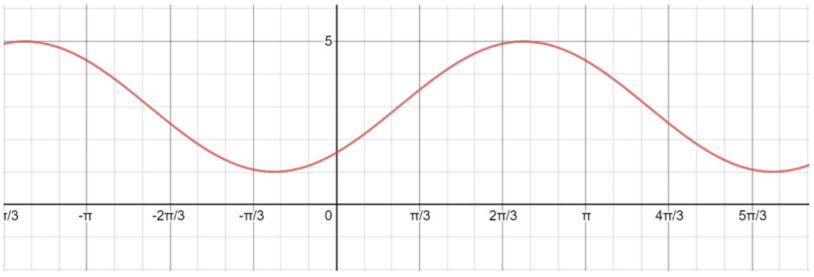
Period | Phase Shift | Period Start | Period End

Example Find an equation for each of the following functions:

a.



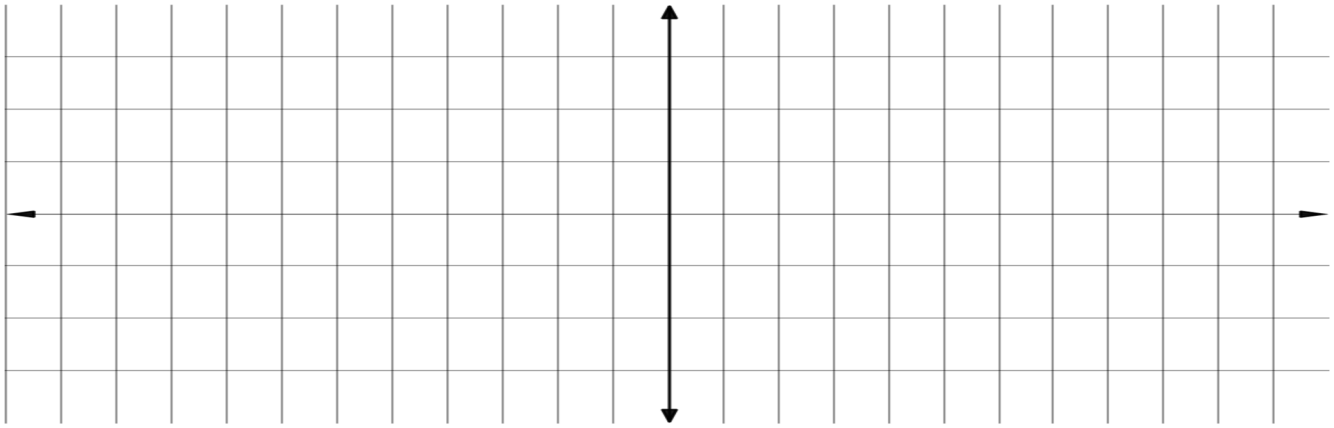
b.



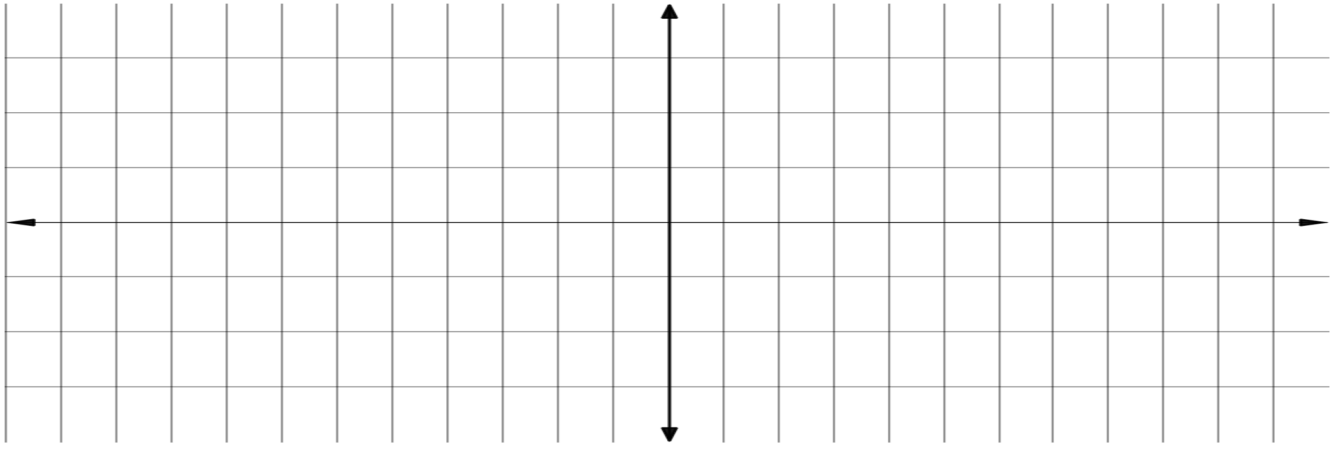
Assignment | p. 250 # 1 – 9, 11, 12, 14 – 16, 26, 27, C2 | Quiz Next Day!

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

a. $y = 2\sin\left(x - \frac{\pi}{6}\right) - 5$



b. $f(x) = -3\cos 4x + 2$



c. $g(x) = 4\cos\frac{2\pi}{3}(x + 1) + 2$