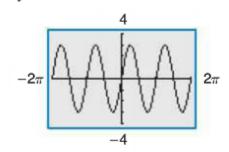
Pre-Calculus: Lesson 4.5 Graphs of Sine and Cosine Functions p.299, #11-20 all

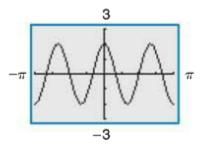
Please complete the assignment using the "tri-fold" method (You may use www.calcchat.com to check your work):

Finding the Period and Amplitude In Exercises 11–20, find the period and amplitude.

11.
$$y = 3 \sin 2x$$



12.
$$y = 2 \cos 3x$$



13.
$$y = \frac{5}{2} \cos \frac{x}{2}$$

14.
$$y = -3\sin\frac{x}{3}$$

15.
$$y = \frac{2}{3} \sin \pi x$$

16.
$$y = \frac{3}{2} \cos \frac{\pi x}{2}$$

17.
$$y = -2 \sin x$$

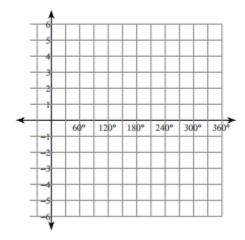
18.
$$y = -\cos\frac{2x}{5}$$

19.
$$y = \frac{1}{4} \cos \frac{2x}{3}$$

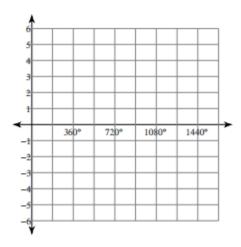
20.
$$y = \frac{5}{2} \cos \frac{x}{4}$$

Using degrees, find the amplitude and period of each function. Then graph.

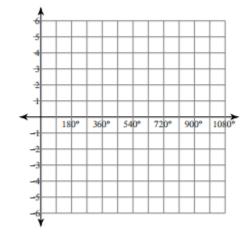
1) $y = \sin 3\theta$



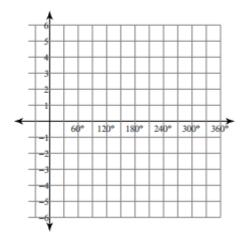
3) $y = 2\sin\frac{\theta}{3}$



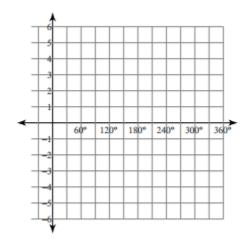
 $5) \ \ y = 3\cos\frac{\theta}{2}$



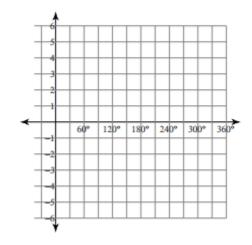
2) $y = 4\cos 3\theta$



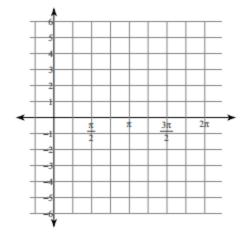
4) $y = \tan 2\theta$



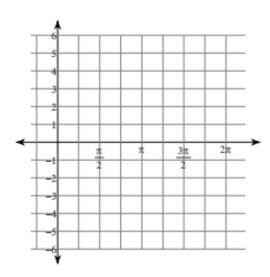
6) $y = \frac{1}{2} \tan \theta$



7) $y = \sin 3\theta$



10) $y = 2\cos 4\theta$



 $8) \ \ y = \frac{1}{2} \tan \frac{\theta}{3}$

