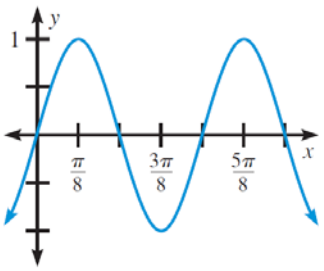
Lesson 14.1 Worksheet

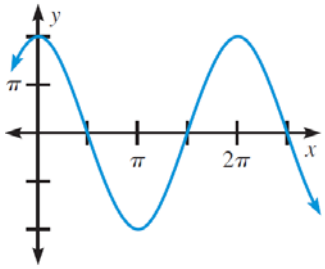
Name: _____

Identify the amplitude and the period of the graph of the function.

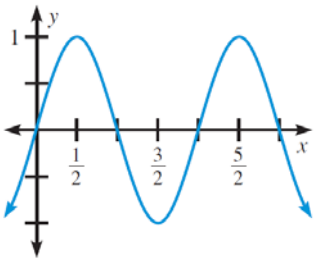
1.)



2.)



3.)



Graph <u>one period</u> of the function. Identify its domain, range, amplitude, period, and x-/y-intercepts.

4.) $y = \sin \frac{1}{5}x$

domain: range:

amplitude: period:

x-int: *y*-int:

5.) $y = 4\cos x$

domain: range:

amplitude: period:

x-int: *y*-int:

6.) $y = 3\cos \pi x$

domain: range:

amplitude: period:

x-int: *y*-int:

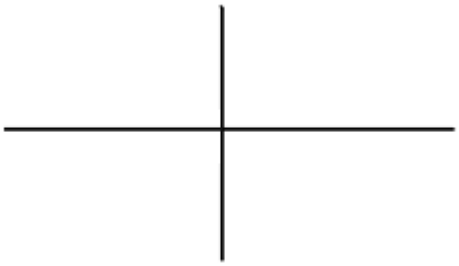
7.) $y = 2\sin \frac{\pi}{2}x$

domain: range:

amplitude: period:

x-int: *y*-int:

8.) $y = 2\tan 4x$

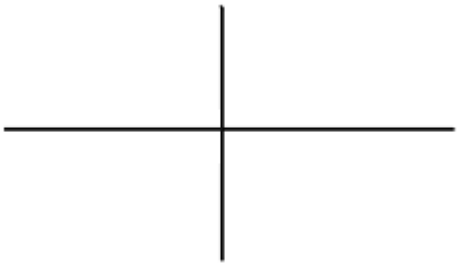


domain: range:

asymptotes: period:

x-int: *y*-int:

9.) $y = 4\tan \pi x$



domain: range:

asymptotes: period:

x-int: *y*-int:

Solve ΔABC. Round answers to the nearest <u>tenth</u>.

10.) $B = 56°,\ b = 17,\ c = 14$

11.) $a = 20,\ b = 14,\ c = 23$

12.) $B = 53°,\ a = 41,\ c = 29$

13.) $C = 66°,\ a = 18,\ c = 17$