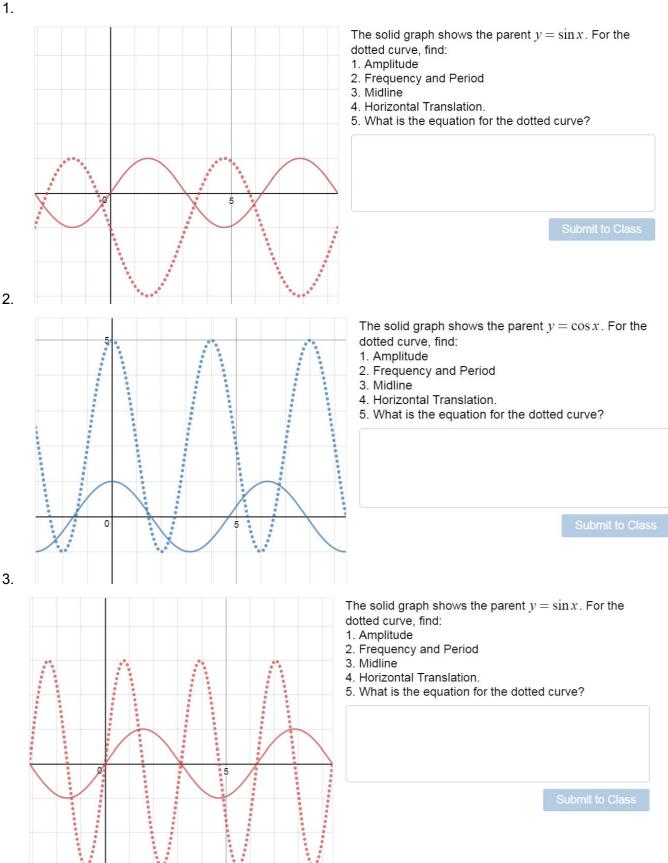
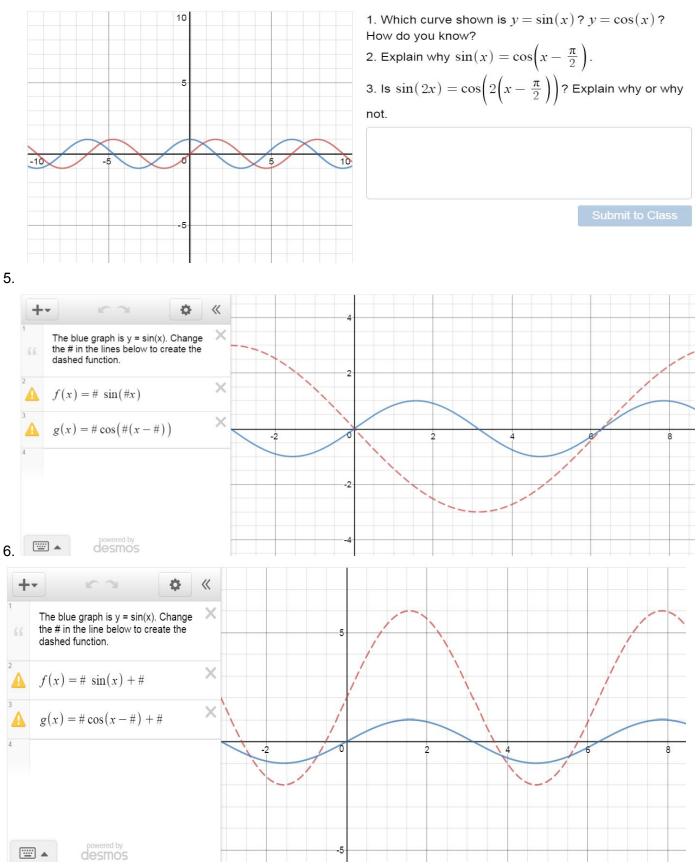
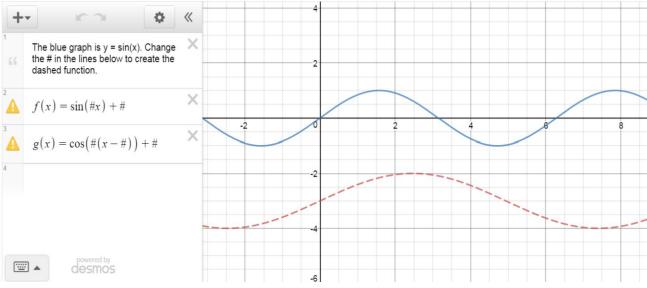
Writing Trig Functions in Radians

Name:







8.

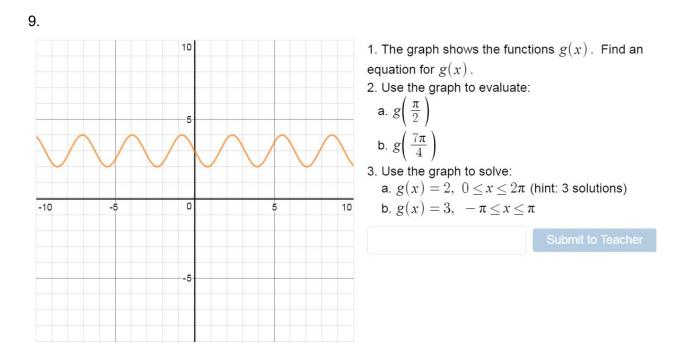
7.

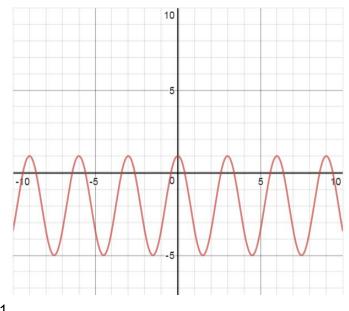
Make sure you write in your notes:

1. How do you use the amplitude, period, horizontal shift and midline to write a trigonometric function in radian mode? How is this different from degree mode?

2. Explain the equation:
$$Frequency = \frac{2\pi}{Period}$$
 (in radian mode)

radian mode)





- 1. The graph shows the functions f(x). Find an equation for f(x).
- 2. Use the graph to evaluate:
 - a. f(3)
 - b. f(5.25)
- 3. Use the graph to solve:
 - a. $f(x)=1, \; 0 \leq x \leq 7$ (hint: 3 solutions)
 - b. $f(x) = -5, -10 \le x \le -3$

Submit to Teacher

11.

Write a note: How can you use the graph to evaluate trigonometric functions? solve trigonometric equations?

12. Write two equations to fit the given data. The function f(x):Starts on the midline Reaches its first maximum at (3, 11)Reaches its first minimum at (9, 1)

f(x) =

f(x) =

Solve the following equations using any method. Give all solutions.

- a. f(x) = 1
- b. f(x) = 11
- c. f(x) = 6
- d. f(x) = 8.5