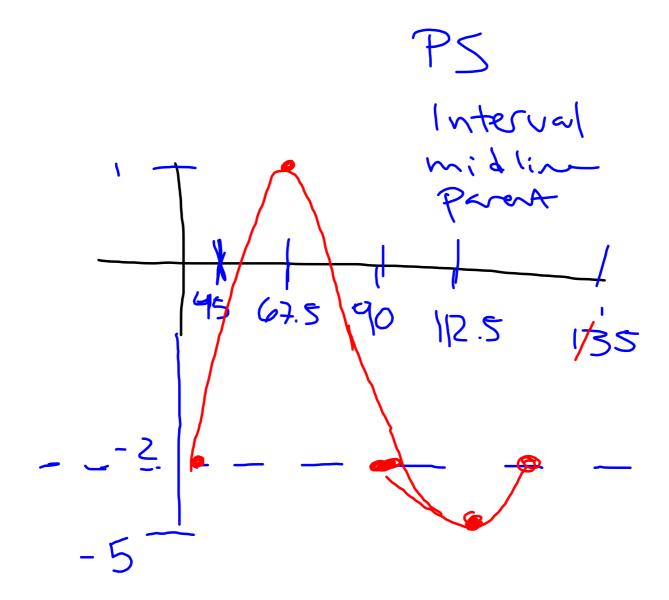
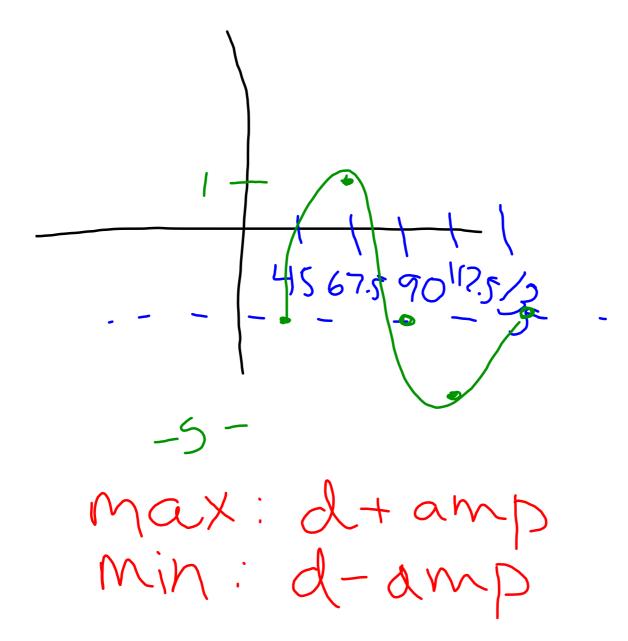
Warm-Up March 15, 2017

Graph the trig function:







## Graph.

$$y = 5 \cos(2x + 90^{\circ}) + 1$$

$$\alpha = 5 \quad b = 2 \quad c = -90 \quad d = 1$$

$$anc = 5 \quad per = 180^{\circ}$$

$$1nt = 45^{\circ}$$

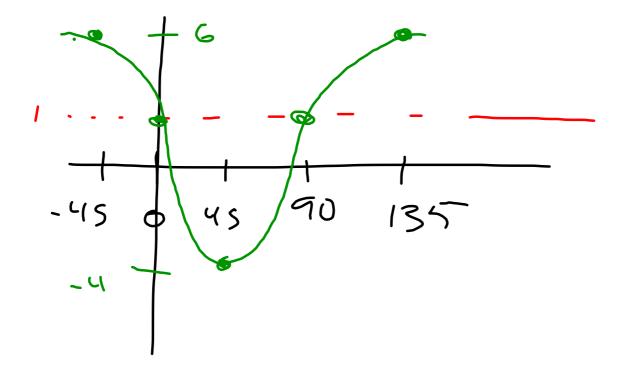
$$75 = -90^{\circ} = -45 \quad L$$

$$75 = 17$$

$$1nt = 45^{\circ}$$

$$1nt = 45^{\circ}$$

$$1nt = 45^{\circ}$$



## Graphing Sine and Cosine

- 1. Find a, b, c, and d.
- 2. Find amplitude and period.
- 3. Divide period by 4. (interval)
- 4. Find the PS (starting point) and VS (midline)
- 5. Graph

Asymptote at midline

smile at max

frown at min

$$5 = -4$$
 Sec(2x+90)+1  

$$a = -4$$
 b=2 c=-90 b=1  

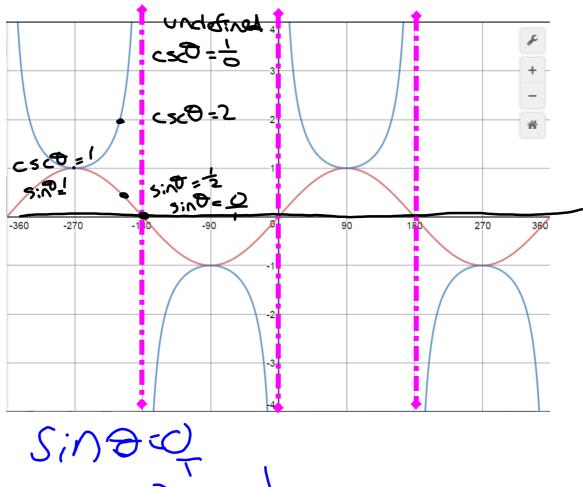
$$a = -4$$
 per =  $\frac{360}{2}$  = 180  

$$1nt = \frac{180}{4} = 45$$

$$75 = \frac{6}{2} = \frac{-90}{2} = 45$$

$$75 = \frac{6}{2} = \frac{-90}{2} = 45$$

$$75 = \frac{15}{2} = \frac{1}{2} = \frac{1}{2}$$



5=2csc(2x-180)-3

## **Guess Who**

- 1. Choose a partner.
- 2. One partner will choose a function from the set.
- 3. The other partner must ask yes or no questions to eliminate the other functions until you are confident you know your partner's function.
- 4. Switch roles

## Ticket out the door:

1. Graph.

2. Explain how the graphs of secant and cosecant relate to the graphs of sine and cosine.