Warm Up

Put in standard form

$$\frac{y+5}{3} = \frac{3}{\cos(2\theta + 90^{\circ}) + 6^{3}}$$

$$y = \frac{3}{3}\cos[3(\theta + 45^{\circ})] + 18^{\circ}$$

$$y = \frac{3}{3}\cos[3(\theta + 45^{\circ})] + \frac{13}{3}$$

$$0 = \frac{3}{3}$$

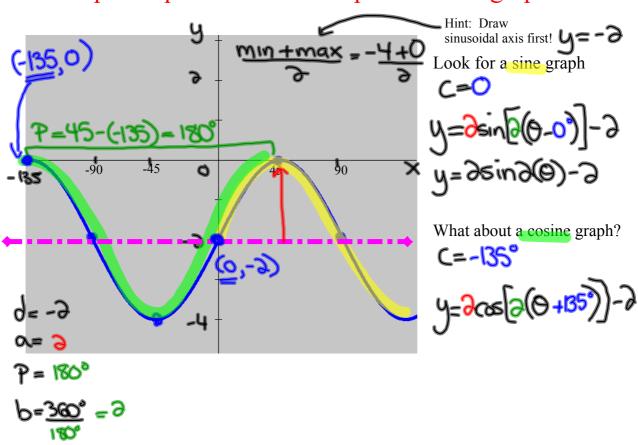
$$b = 3$$

$$c = -45^{\circ}$$

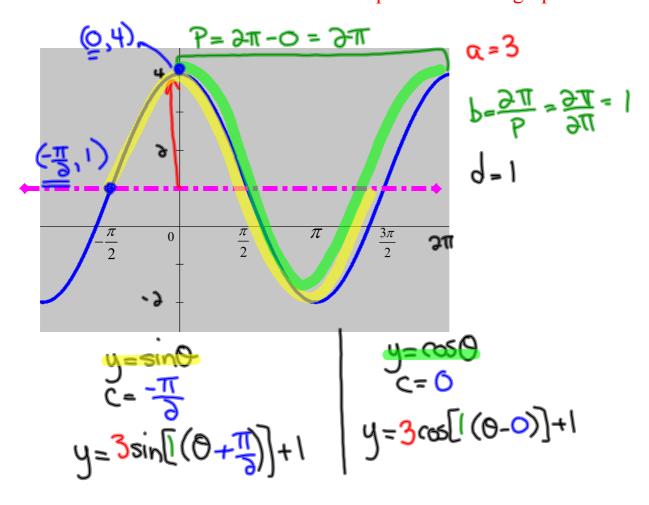
$$d = 13$$

$$P = \frac{360^{\circ}}{3} = 80^{\circ}$$

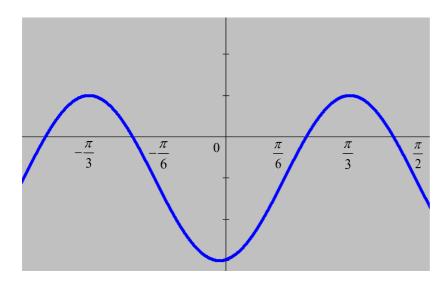
Develop an equation that corresponds to the graph



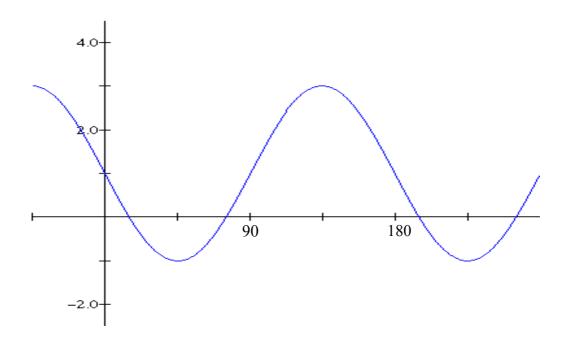
Determine a sine and a cosine equation for this graph



Write both a sine and cosine equation to describe the following graph:



Find four equations that match the graph:



Check with a calculator...

Homework

Mathematical Modeling p. #28

Worksheet - Sketching Sinusoidal relations (sept06).pdf