

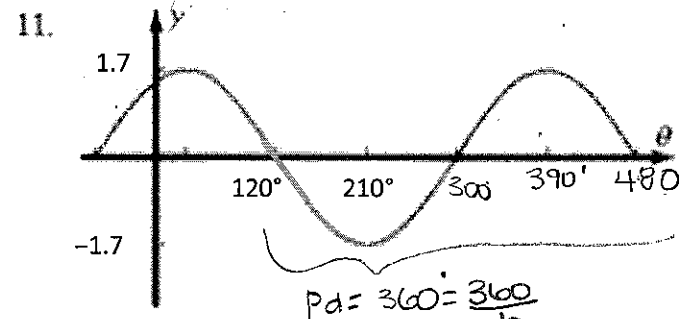
$$y = a \sin b(\theta - c^\circ) + d$$

$$y = a \cos b(\theta - c^\circ) + d$$

Trig Graphing  
More Equation Writing WS

Name: Key

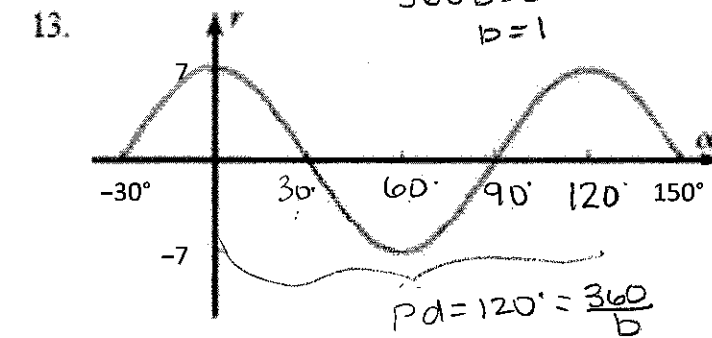
For Problems 9-14, find a particular equation of the sinusoid that is graphed.



$$y = -1.7 \sin(\theta - 120^\circ)$$

$$y = 1.7 \cos(\theta - 30^\circ)$$

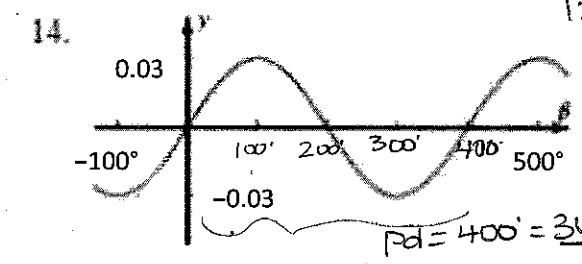
$$y = 1.7 \sin(\theta + 60^\circ)$$



$$y = 7 \cos 3\theta$$

$$y = 7 \sin 3(\theta + 30^\circ)$$

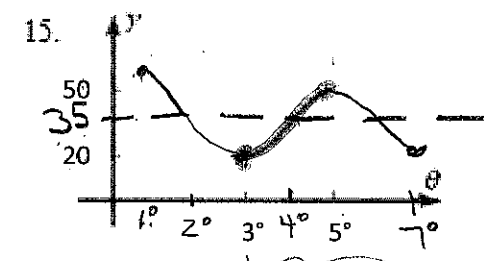
$$y = -7 \sin 3(\theta - 30^\circ)$$



$$y = .03 \sin 9\theta$$

$$y = .03 \cos 9(\theta - 100^\circ)$$

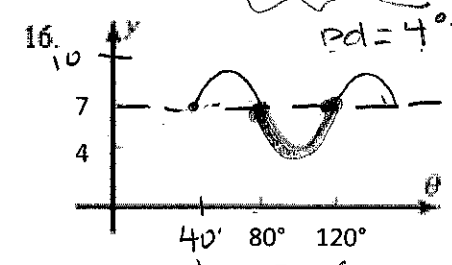
In Problems 15 and 16, a half-cycle of a sinusoid is shown. Find a particular equation of the sinusoid.



$$y = -15 \cos 90(\theta - 3^\circ) + 35$$

$$y = 15 \cos 90(\theta - 1^\circ) + 35$$

$$y = -15 \sin 90(\theta - 2^\circ) + 35$$



$$y = 3 \sin 4.5(\theta - 40^\circ) + 7$$

$$y = -3 \sin 4.5(\theta - 80^\circ) + 7$$

$$y = 3 \cos 4.5(\theta - 60^\circ) + 7$$

$$y = 1.5 \cos 9(\theta - 80^\circ) + 5.5$$