

Write an equation of the sine function with each amplitude and period.

5. amplitude = 3, period =  $2\pi$ 

6. amplitude = 8.5, period =  $6\pi$  $y = \pm 8.5 \sin \frac{\theta}{2}$ 

## Write an equation of the cosine function with each amplitude and period.

7. amplitude = 0.5, period =  $0.2\pi$ 

$$y = \pm 0.5 \cos 10\theta$$

 $y = \pm 3 \sin \theta$ 

8. amplitude  $=\frac{1}{5}$ , period  $=\frac{2}{5}\pi$  $y = \pm \frac{1}{5} \cos 5\theta$ 

9. *Music* A piano tuner strikes a tuning fork for note A above middle C and sets in motion vibrations that can be modeled by the equation  $y = 0.001 \sin 880\pi t$ . Find the amplitude and period for the function.

0.001;  $\frac{1}{440}$ 

**3**. Find the ≈ **0.28** 

 $\mathbf{p} = \mathbf{2}\pi$ 

begins to

≈ **0.26** 

**2.** Find an e

4. A buoy b cross-sec the perio buoy.

## $\approx$ 116.

**5.** Write an the ampl