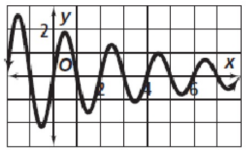
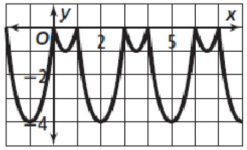
For 1-2, state if each function is periodic. If yes, state the Period. Amplitude, and equation of the Midline.

1.



2.



3. Find both a positive and a negative coterminal angle for each given angle

a) $\theta = \frac{38\pi}{9}$

b) $-940°$

5. Convert to ~~degrees~~ radians.

$840°$

4. Convert to ~~radians~~ degrees.

$-\frac{11\pi}{36}$

6. Give the exact value of each.

a) $\text{Cos}(-930°)$

b) $\text{Tan}\frac{17\pi}{4}$

c) $\text{Sin}(-\frac{13\pi}{2})$

d) $\text{Tan}1620°$

e) $\text{Cos}\frac{19\pi}{3}$

f) $\text{Sin}765°$

7. In which quadrant or on what axis does the terminal side of each angle lie?

a) $3460°$

b) $-\frac{46\pi}{7}$

c) $\frac{71\pi}{11}$

8. State the period and amplitude for this sine function.

$y = -14\sin\frac{8x}{9}$

9. Graph one period of this sine function.

$y = -5.5\sin 7x$

10. Write the equation of the given sine function.