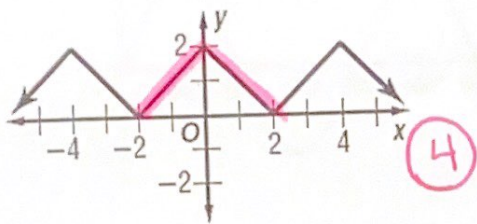


Amplitude and Period Worksheet

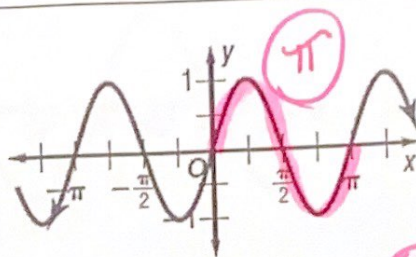
Key

Directions: Find the **period** of each function by examining its graph.

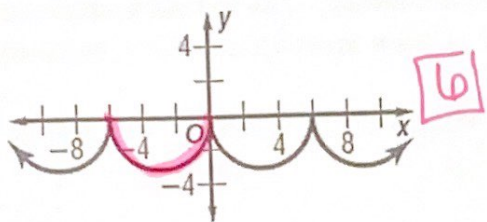
1.



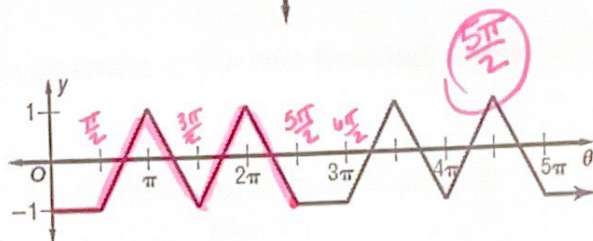
2.



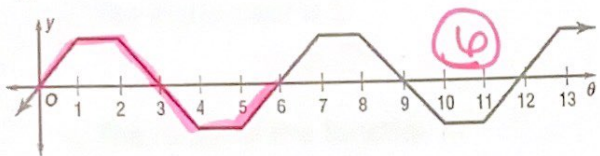
3.



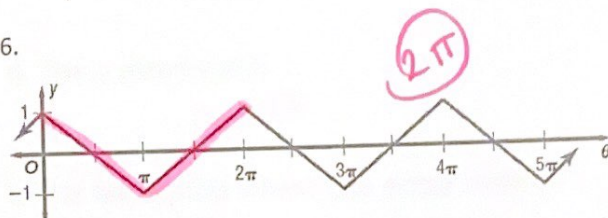
4.



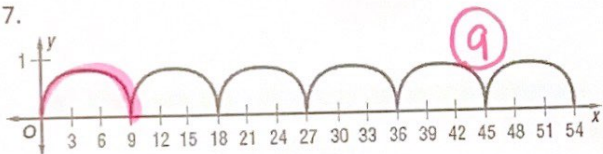
5.



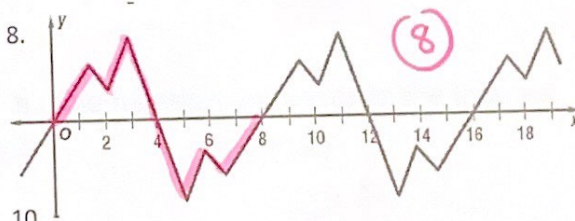
6.



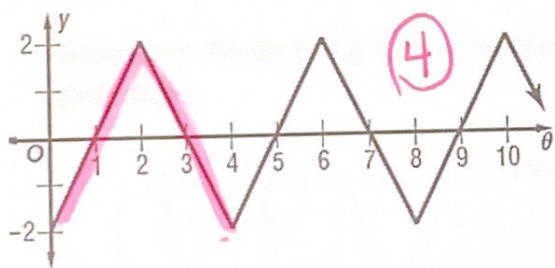
7.



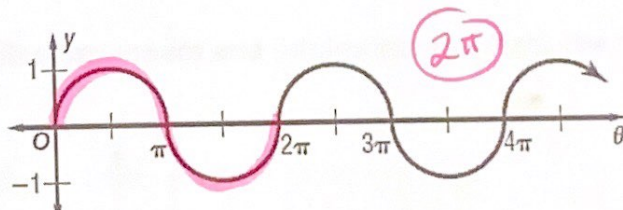
8.



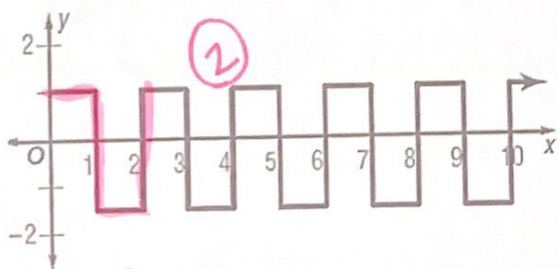
9.



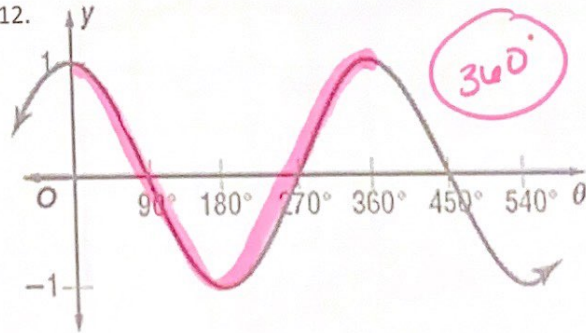
10.



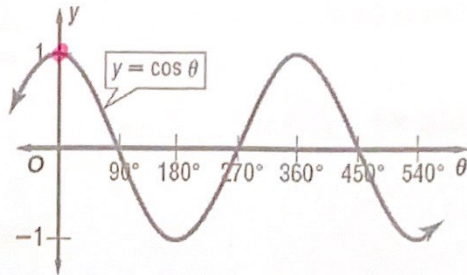
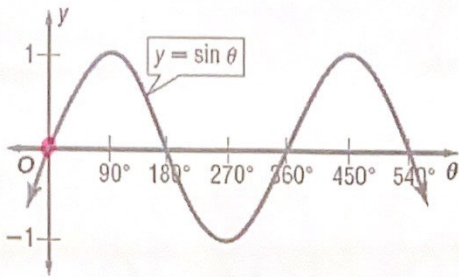
11.



12.



9



13. State whether each statement describes a characteristic of the sine function, cosine function, both functions or neither functions.

a. The function has a period of 360°

Both

b. The function has an amplitude of 2.

none

c. The y-intercept is 1.

$\cos \theta$

d. The y-intercept is 0.

$\sin \theta$

e. The range of the function is

$$-1 \leq y \leq 1.$$

Both

f. The horizontal intercepts occur only at multiples of 90°

Both

g. The function decreases in the interval

$$0^\circ \leq \theta \leq 90^\circ$$

$\theta = x$ in our minds

cosine

h. The function increases in the interval

$$0^\circ \leq \theta \leq 90^\circ$$

$\sin \theta$

Directions: Given the graph, identify the midline, maximum and minimum, and state the amplitude.

