

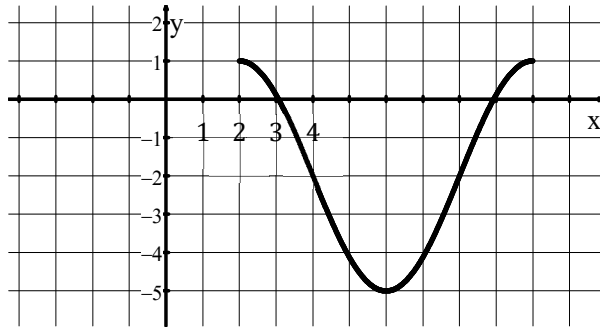
3.1 Periodic Phenomena

AP Precalculus

Name: _____

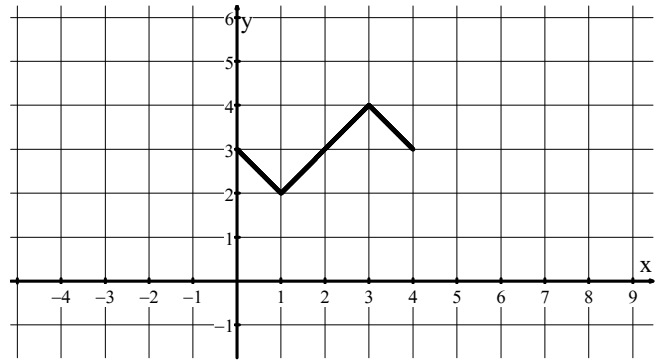
The following graphs show one period of a periodic function. Sketch the rest of the graph on the given axes and answer any questions that follow.

1.



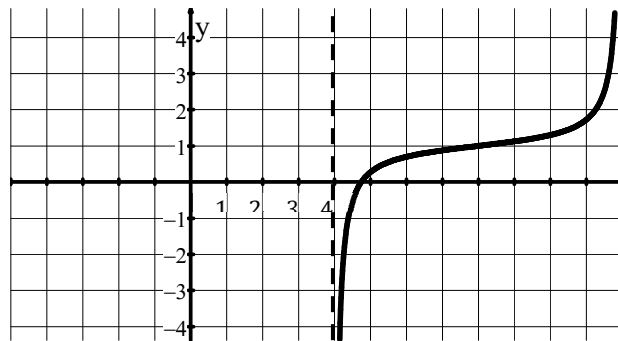
- a. Is the function increasing, decreasing or both on the interval $42 < x < 46$?
- b. Is the function concave up, concave down, or both on the interval $20 < x < 24$?
- c. Is there a relative max, relative min, or neither at the point $x = 38$?

2.



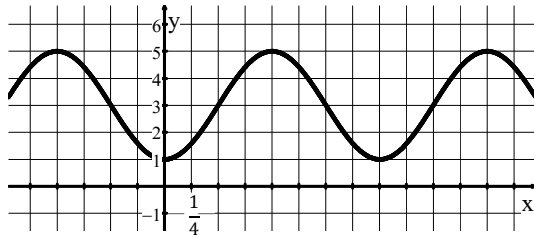
- a. Is the function increasing, decreasing or both on the interval $37 < x < 38$?
- b. Is there a relative max, relative min, or neither at the point $x = 47$?

3.



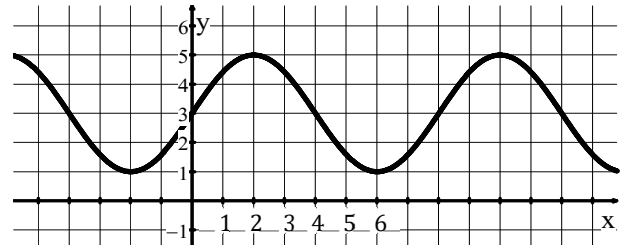
Identify the length of the period for each function.

4.



Period = _____

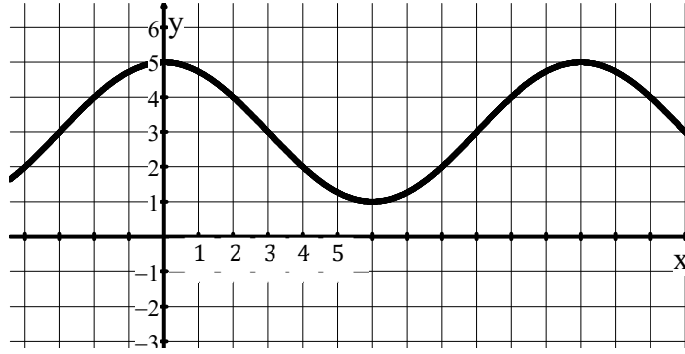
5.



Period = _____

Identify the length of the period for each function.

6.



Period = _____

Answers to 3.1 CA #2

<p>1.</p>	<p>1a. decreasing 1b. concave up 1c. relative min</p>	<p>2.</p>	<p>2a. increasing 2b. relative max</p>
<p>3.</p>	<p>4. 2</p>	<p>5. 8</p>	<p>6. 12</p>