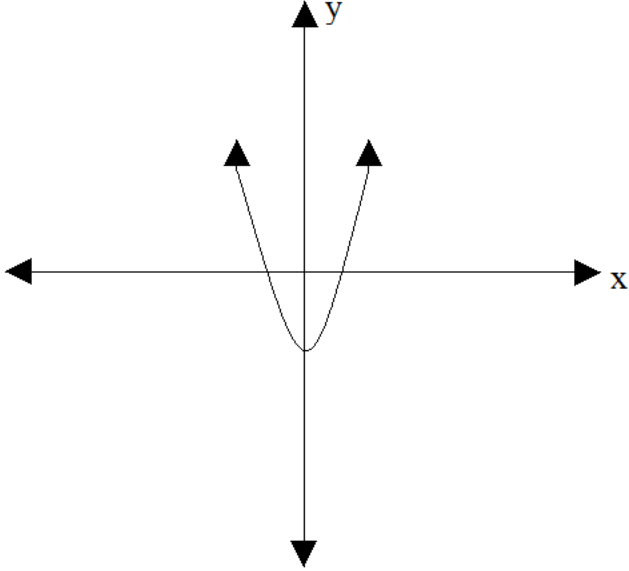
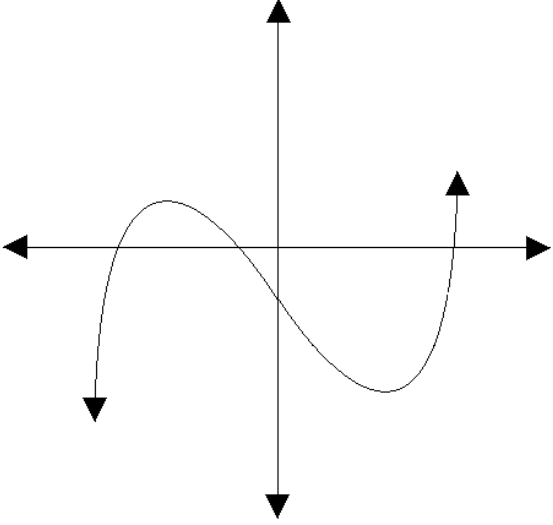


Algebra

A099-Formalizing Relations and Functions

Are the following relations shown functions?

<p>1. $(-2, 0.5), (0, 2.5), (4, 6.5), (5, 2.5)$ A) Yes B) No</p>	<p>2. $(6, 5), (4, 3), (6, 4), (5, 8)$ A) Yes B) No</p>
<p>3. $(4.2, 1.5), (5.2, 2), (7.4, 8), (4.2, 0)$ A) Yes B) No</p>	<p>4. $(-1, 1), (-2, 2), (4, -4), (7, -7)$ A) Yes B) No</p>
<p>5.</p>  <p>A) Yes B) No</p>	<p>6.</p>  <p>A) Yes B) No</p>
<p>7. The function $f(x) = 7x + 100$ represents the cost of a gym membership. If x represents the number of months, how much does it cost to have a membership for a year? A) \$199 C) \$307 B) \$256 D) \$184</p>	<p>8. The function $f(x) = 450x$ represents the number of words Stuart can type in x minutes. How many words can he type in half an hour? A) 13,500 C) 5000 B) 27,600 D) 8,600</p>
<p>9. The function $f(x) = 5000x - 50$ represents the population of deer in New York with x representing the years after the 2000. How many deer will there be in 2016? A) 6,875 C) 9870 B) 79,950 D) 10,010</p>	<p>10. The function $f(x) = \frac{100,000}{x} + 5000$ represents the population of the Spix's Macaw, an endangered species. What will the population be in 2020 if x is the number of years after 2000? A) 7,000 C) 10,000 B) 5,000 D) 20,000</p>