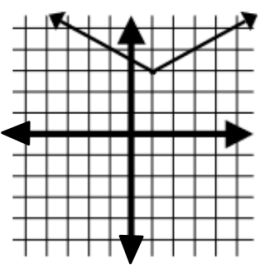
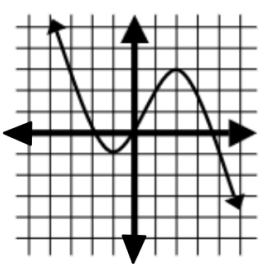
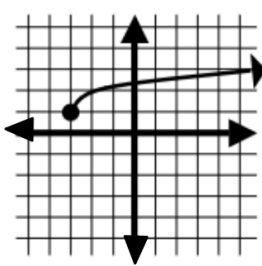
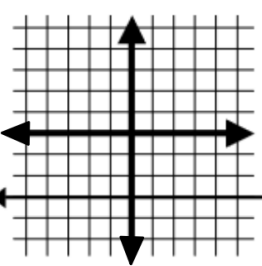
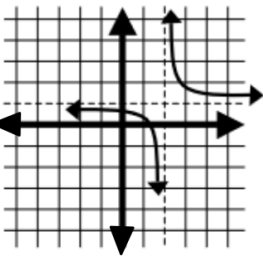
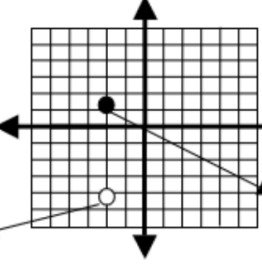


PreCalculus Review Lesson 4: Domain & Range

Use the graph of each function to find its domain and range in interval AND inequality notation.

<p>1.</p>  <p>Domain: _____</p> <p>Domain: _____</p> <p>Range: _____</p> <p>Range: _____</p>	<p>2.</p>  <p>Domain: _____</p> <p>Domain: _____</p> <p>Range: _____</p> <p>Range: _____</p>	<p>3.</p>  <p>Domain: _____</p> <p>Domain: _____</p> <p>Range: _____</p> <p>Range: _____</p>
<p>4.</p>  <p>Domain: _____</p> <p>Range: _____</p>	<p>5.</p>  <p>Domain: _____</p> <p>Range: _____</p>	<p>6.</p>  <p>Domain: _____</p> <p>Range: _____</p>

7) Select all of the following equations that have domain of all real numbers and a range of $[-2, \infty)$

a) $f(x) = \frac{1}{2}|x+3| - 2$

b) $g(x) = 3x - 2$

c) $y = 2(x-3)^2 - 2$

d) $h(x) = \sqrt{x-3} - 2$

e) $f(x) = x^3 - 2$

f) $g(x) = \sqrt[3]{x+4} - 2$

8) Identify which of the following functions have a domain of all real numbers.

$f(x) = x^2$

$f(x) = \sqrt{x}$

$f(x) = 4 - 3x$

$f(x) = |x-4| + 5$

9) Identify all functions with the same range as: $f(x) = x^2 + 5$

$f(x) = 2x + 5$

$f(x) = \sqrt{x} + 5$

$f(x) = x^3 + 5$

$f(x) = (x+5)^2$

10) Which function has a range of all real numbers?

A. $y = 3^x + 1$

B. $y = 3x + 1$

C. $y = \sqrt{x-3}$

D. $y = |x-3|$