

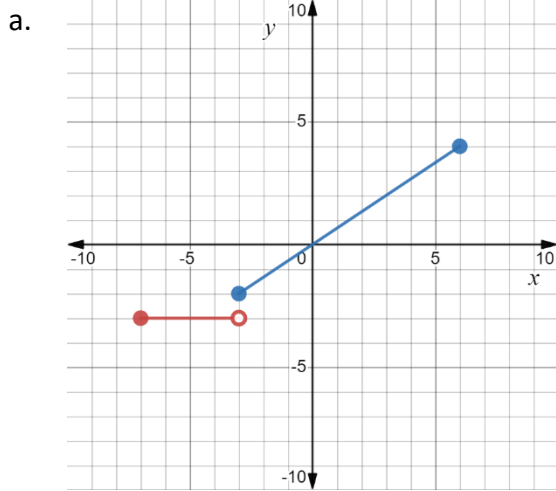
Name: _____

Date: _____

<p>Learning Goal 0.1</p>	<p>Expectations for graphing from previous years.</p>
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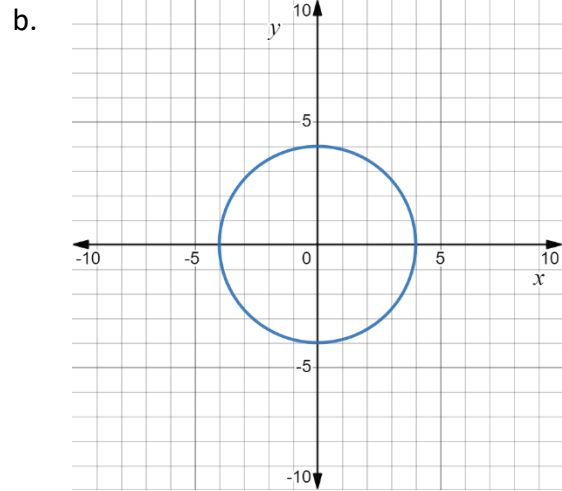
Let's start slowly!

Example Determine whether each of the following graphs represents a function. If so, state the domain and range of the function.



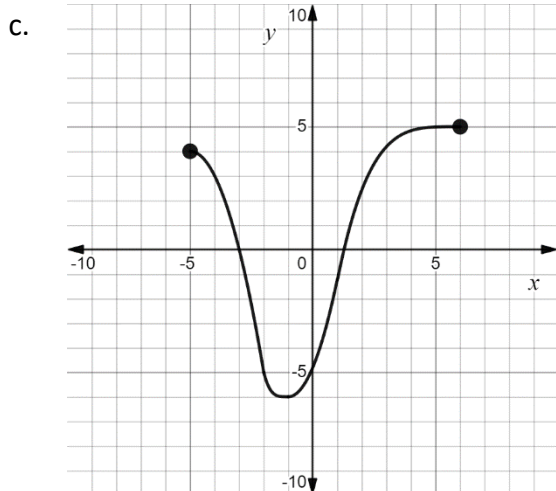
Domain

Range



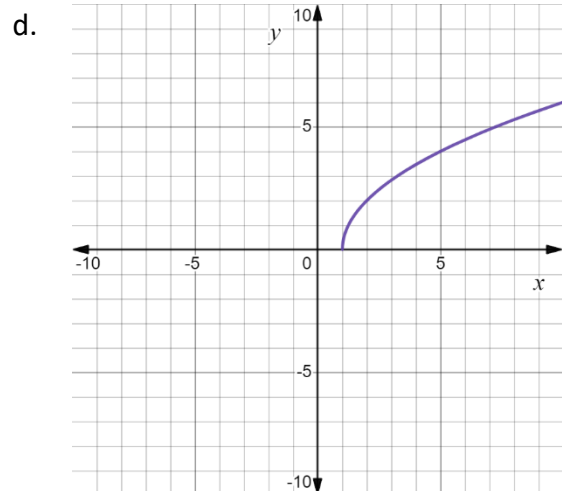
Domain

Range



Domain

Range



Domain

Range

Example Determine whether each of the following equations represents a function. If so, state the domain and range of the function.

a. $y = 2x^2 + 5$

Domain

Range

c. $x = |y|$

Domain

Range

b. $x^2 + y^2 = 9$

Domain

Range

d. $y = \frac{1}{x - 3}$

Domain

Range

Example Consider the functions then evaluate.

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

$$g(x) = \frac{x}{x + 2}$$

a. $f(2)$

b. $g(-3)$

c. $g(x - 1)$

d. $f(x + 4)$

Example Use the graph of $f(x)$ to determine the following.

a. $f(-2)$

b. $f(x) = 2$

c. the zeros of the function.

d. the maximum of $f(x)$ and the value of x for which that happens.

