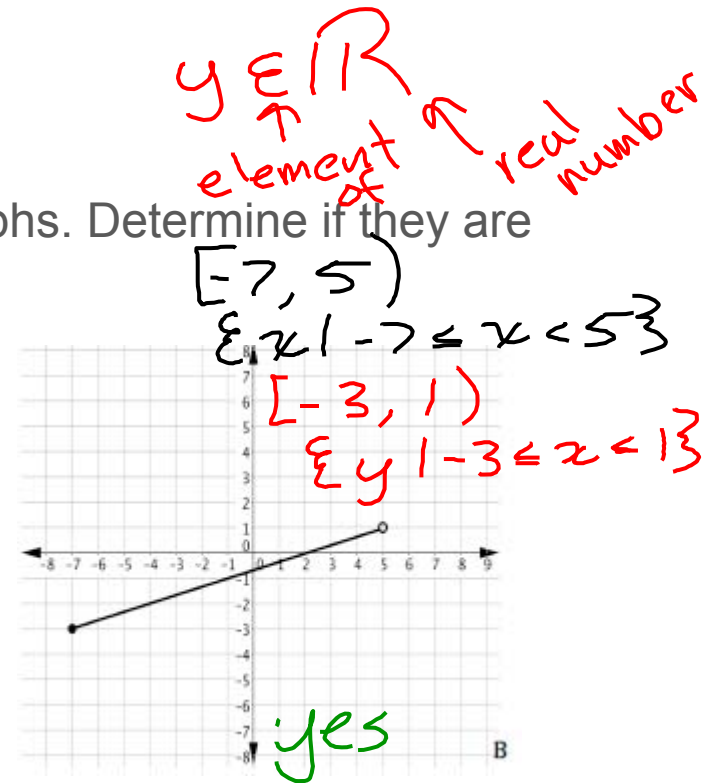
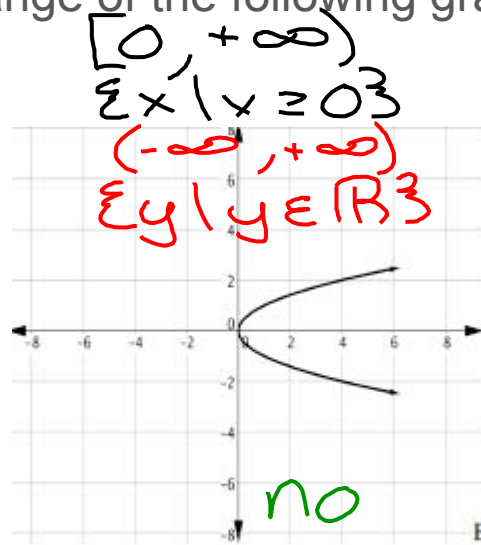
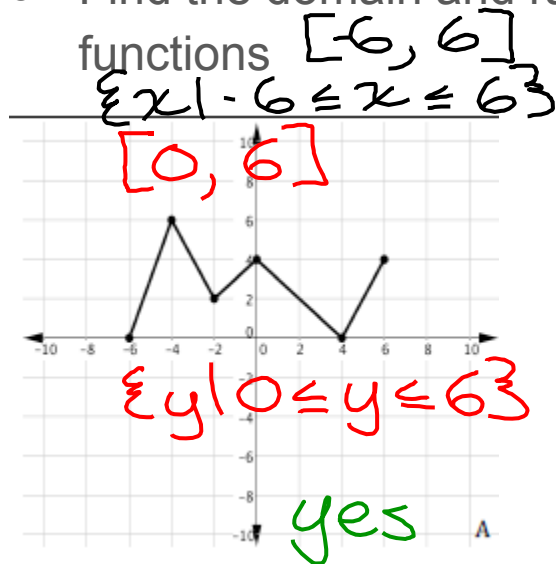


Warm-up

- Domain
- Range

- Find the domain and range of the following graphs. Determine if they are functions



Notation Activity

Function Notation

$$y = 5x - 1$$

$$f(x) = 5x - 1$$

$$y = 6$$
$$f(x) = 6$$

$$6 = 5x - 1$$

What is y when $x = -6$? $y = 5(-6) - 1$

What is $f(-6)$? $f(-6) = 5(-6) - 1$

$$f(-6) = 31$$

Function Notation?

1. Given $f(x) = 2x^2 - 8$, find each value.

a. $f(6) = 2(6)^2 - 8$

$$f(6) = 64 = 2(36) - 8 \\ = 72 - 8$$

b. $f(2y) = 2(2y)^2 - 8$

$$= 2(4y^2) - 8 \\ f(2y) = 8y^2 - 8$$

2. Given $g(x) = 0.5x^2 - 5x + 3.5$, find each value.

a. $g(2.8) = 0.5(2.8)^2 - 5(2.8) + 3.5$

$$g(2.8) = -6.58$$

b. $g(4a) = 0.5(4a)^2 - 5(4a) + 3.5$

$$g(4a) = 8a^2 - 20a + 3.5$$

Are these the same?

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

$$f(x + 2) = 3(x + 2) + 5$$

$$f(x) + 2 = 3x + 5 + 2$$

Quizlet Live Take-Two

Functioning Well

Complete sheet for Homework

