

Daily Quiz

Solve the following equation,  $3(x - 2) = 6x + 15$ .

$$3x - 6 = 6x + 15$$

$$\underline{-6x - 6 = 6x + 15}$$

$$-3x =$$

$$x = -7$$

Unit 1:  
A.CDE.1

Domain, Range & End behavior Day 5

Objective:

Students will be able to:

- write the domain and range in set notation
- and then describe the end behavior of each function.

1 Explore

Find the Domain and Range for each in interval notation. Then describe the end behavior of the graph.

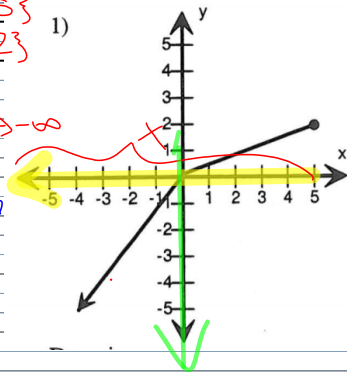
Domain:  $\{x | x \leq 5\}$

Range:  $\{y | y \leq 2\}$

End Behavior:

As  $x \rightarrow -\infty$ ,  $f(x) \rightarrow -\infty$

No end behavior for the right side b/c it's bounded.



2 Explore

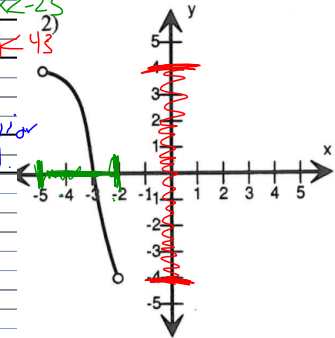
Find the Domain and Range for each in interval notation. Then describe the end behavior of the graph.

Domain:  $\{x | -5 < x < 2\}$

Range:  $\{y | -4 < y < 4\}$

End Behavior:

No end behavior b/c it's bounded.



3 Explore

Find the Domain and Range for each in interval notation. Then describe the end behavior of the graph.

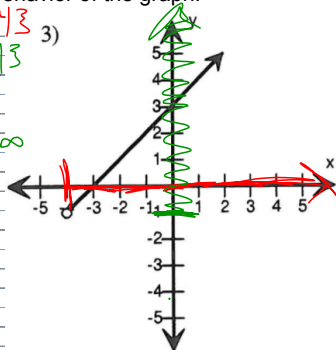
Domain:  $\{x | x > -4\}$

Range:  $\{y | y > -1\}$

End Behavior:

As  $x \rightarrow +\infty$ ,  $f(x) \rightarrow +\infty$

No End behavior b/c bounded the left.



7 Explore

Find the Domain and Range for each in interval notation. Then describe the end behavior of the graph.

Domain:  $\{x | -5 < x < 4\}$

Range:  $\{y | -3 < y < 3\}$

End Behavior:

No end behavior b/c it's bounded.

