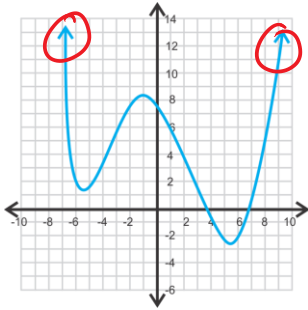


UNIT 3 DAY 11: END BEHAVIOR HOMEWORK

NAME: _____

Find the End Behaviors of the following graphs.

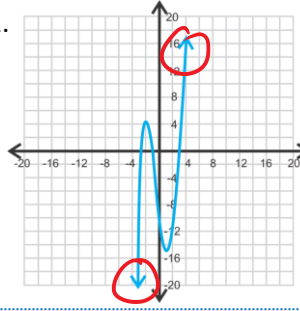
1.



As $x \rightarrow -\infty$, $y \rightarrow \infty$

As $x \rightarrow \infty$, $y \rightarrow \infty$

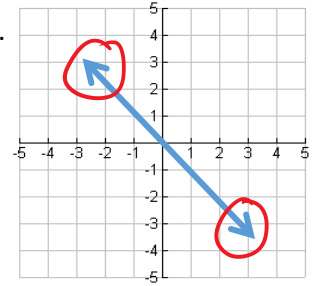
2.



As $x \rightarrow -\infty$, $y \rightarrow -\infty$

As $x \rightarrow \infty$, $y \rightarrow \infty$

3.



As $x \rightarrow -\infty$, $y \rightarrow \infty$

As $x \rightarrow \infty$, $y \rightarrow -\infty$

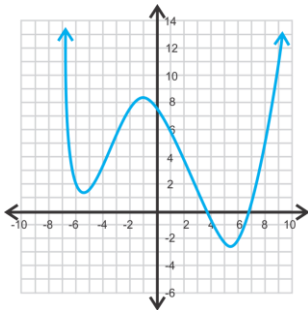
More on the back! 😊

UNIT 3 DAY 11: END BEHAVIOR HOMEWORK

NAME: _____

Find the End Behaviors of the following graphs.

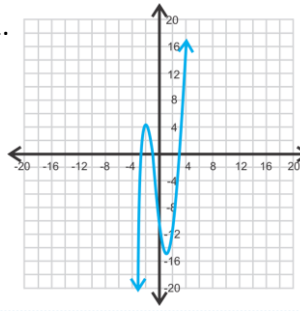
1.



As $x \rightarrow -\infty$, $y \rightarrow$ _____

As $x \rightarrow \infty$, $y \rightarrow$ _____

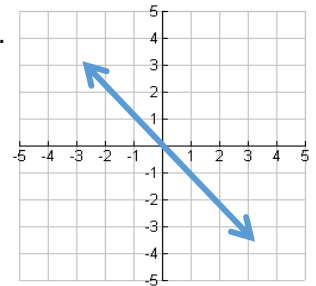
2.



As $x \rightarrow -\infty$, $y \rightarrow$ _____

As $x \rightarrow \infty$, $y \rightarrow$ _____

3.



As $x \rightarrow -\infty$, $y \rightarrow$ _____

As $x \rightarrow \infty$, $y \rightarrow$ _____

More on the back! 😊

Functions Review!

Use $q(x) = 5x - 2$, $k(x) = 2x^2 - 1$, and $m(x) = |3x - 1|$ to answer the questions below.

1. $q(6) = 5(6) - 2$
 $= 30 - 2$

$q(6) = 28$

2. $m(-5) = |3(-5) - 1|$

$= |-15 - 1|$

$= |-16|$

$m(-5) = 16$

3. $k(-3) = 2(-3)^2 - 1$

$= 2(9) - 1$

$= 18 - 1$

$k(-3) = 17$

4. $m(0) = |3(0) - 1|$

$= |0 - 1|$

$= |-1|$

$m(0) = 1$

5. Find x when $q(x) = 8$

$8 = 5x - 2$

$10 = 5x$
 $\frac{10}{5} = \frac{5x}{5}$

$x = 2$

6. Find x when $q(x) = -17$

$-17 = 5x - 2$

$-15 = 5x$
 $\frac{-15}{5} = \frac{5x}{5}$

$x = -3$

Functions Review!

Use $q(x) = 5x - 2$, $k(x) = 2x^2 - 1$, and $m(x) = |3x - 1|$ to answer the questions below.

1. $q(6) =$

2. $m(-5) =$

3. $k(-3) =$

4. $m(0) =$

5. Find x when $q(x) = 8$

6. Find x when $q(x) = -17$