

NAME:

NOTES

DATE:

A2.Q1.BERMELLEEMBO:

GRAPHING FUNCTIONS

(DAY G5)

NOTES

TRANSFORMATIONS OF THE PARENT FUNCTIONS

NO CALCULATORS

increase

decrease

1.

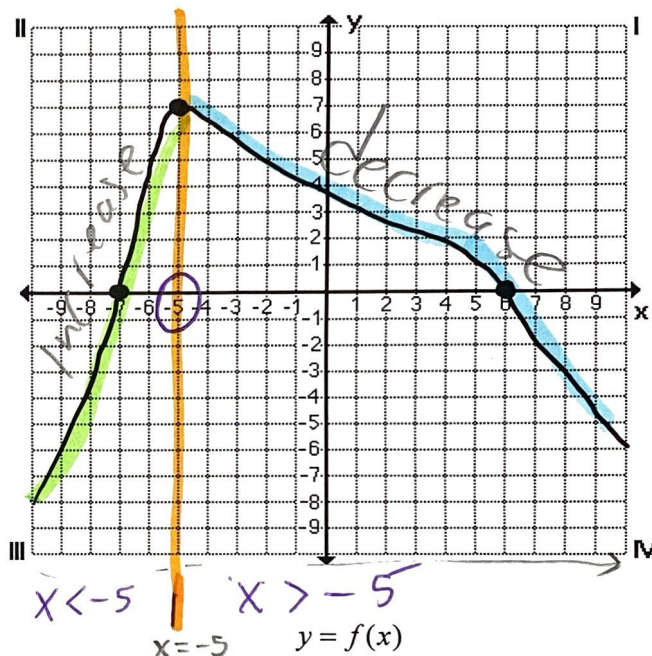
$y = f(x)$

On what interval of x is f increasing:

$$x < -5$$

On what interval of x is f decreasing:

$$x > -5$$



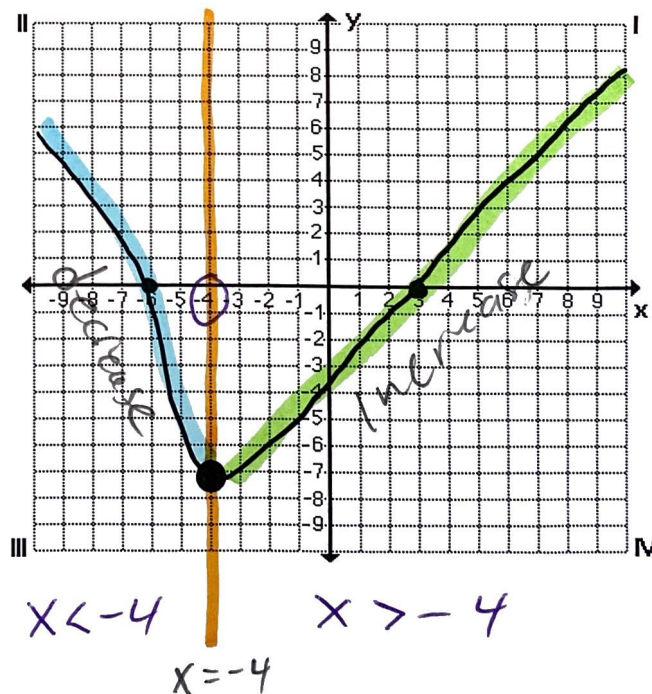
2.

On what interval of x is f increasing:

$$x > -4$$

On what interval of x is f decreasing:

$$x < -4$$



increase
decrease

3.

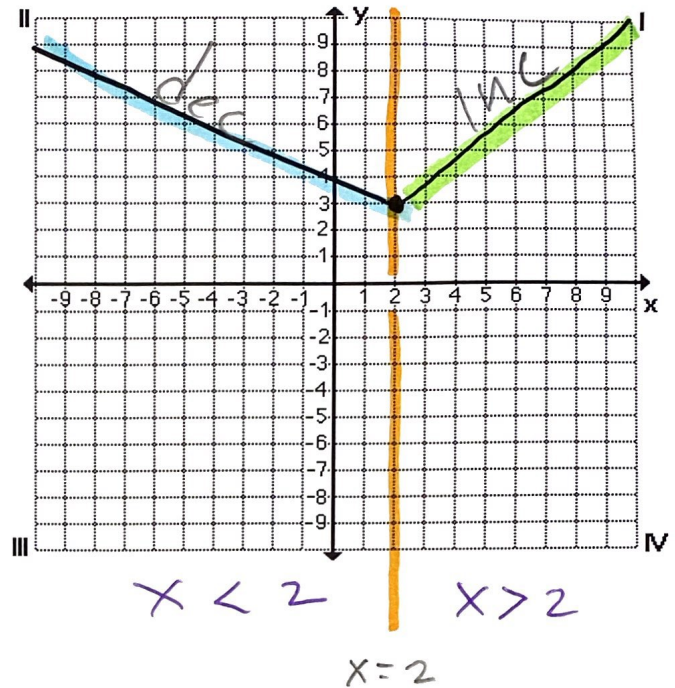
$$y = f(x)$$

On what interval of x is f increasing:

$$x > 2$$

On what interval of x is f decreasing:

$$x < 2$$



4.

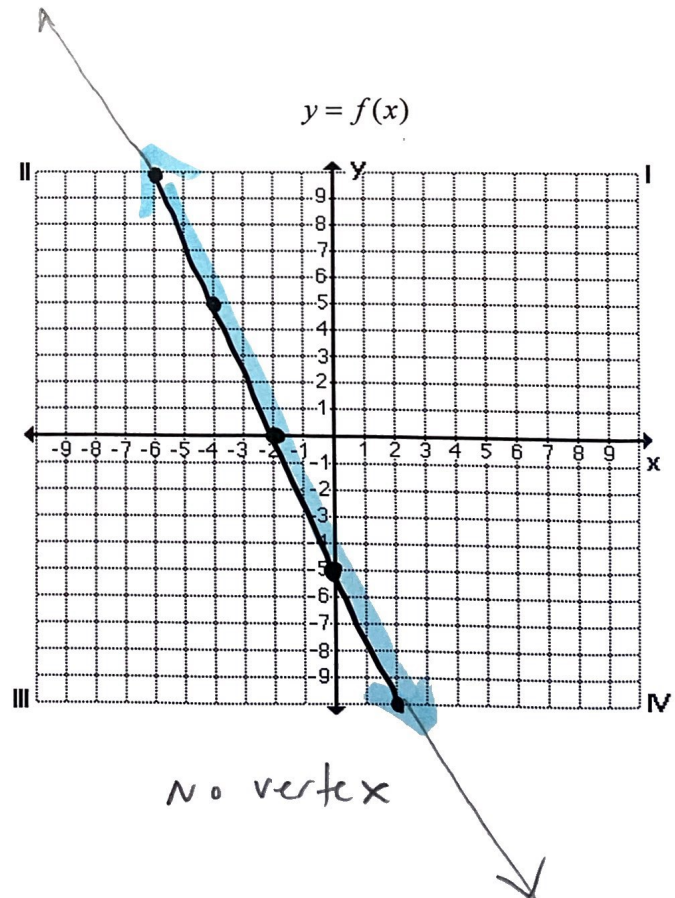
$$y = f(x)$$

On what interval of x is f increasing:

NEVER

On what interval of x is f decreasing:

ALL x
"always decreasing"



above
below

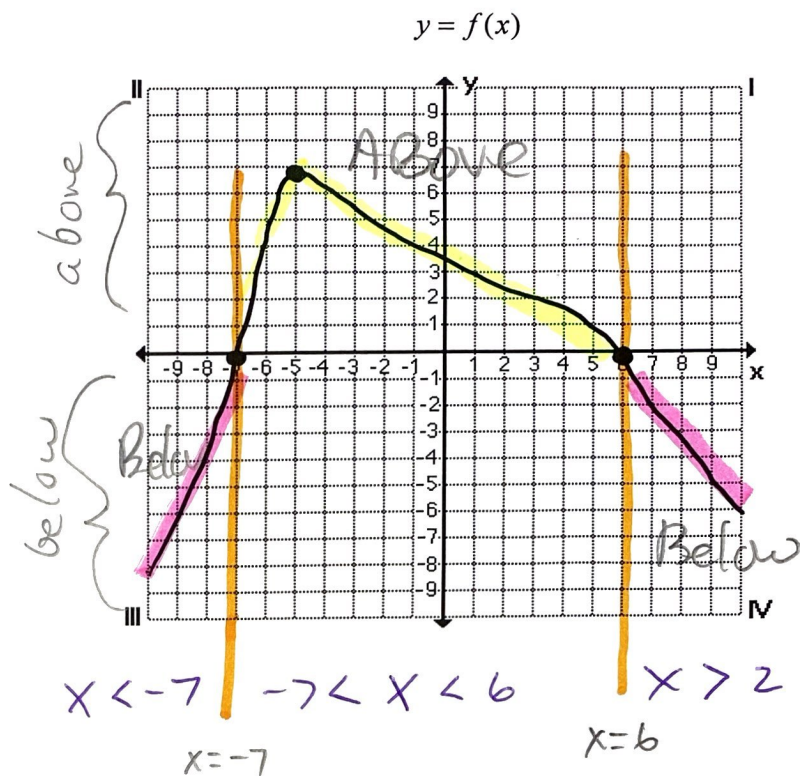
5.

On what interval of x is $f(x) > 0$?

$$-7 < x < 6$$

On what interval of x is $f(x) < 0$?

$$x < -7, \quad x > 2$$



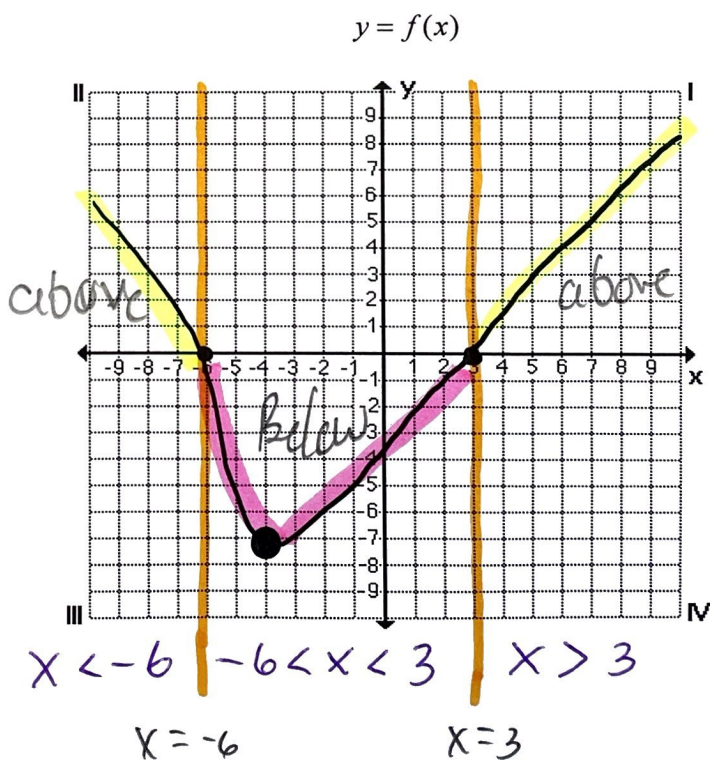
6.

On what interval of x is $f(x) > 0$?

$$x < -6, \quad x > 3$$

On what interval of x is $f(x) < 0$?

$$-6 < x < 3$$



above
below

7.

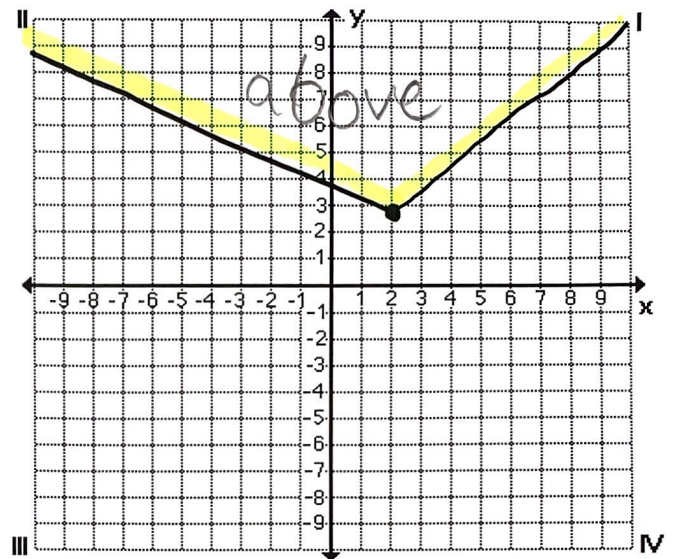
On what interval of x is $f(x) > 0$?

All x

On what interval of x is $f(x) < 0$?

Never

$$y = f(x)$$



never Below x-axis

8.

On what interval of x is $f(x) > 0$?

$x < -2$

On what interval of x is $f(x) < 0$?

$x > -2$

$$y = f(x)$$

