

NAME:

DATE:

A2.Q1.BERMELLEEMBO:

GRAPHING FUNCTIONS

(DAY G6)

REVIEW NOTES

TRANSFORMATIONS OF THE PARENT FUNCTIONS

NO CALCULATORS

1. NEW FUNCTION: $f(x) = 2|x - 3| - 6$

Horizontal Translation:

Reflection:

Dilation:

Slope Ratio:

Vertical Translation:

VERTEX:

Y-INT:

ZERO(S):

AXIS OF SYMMETRY:

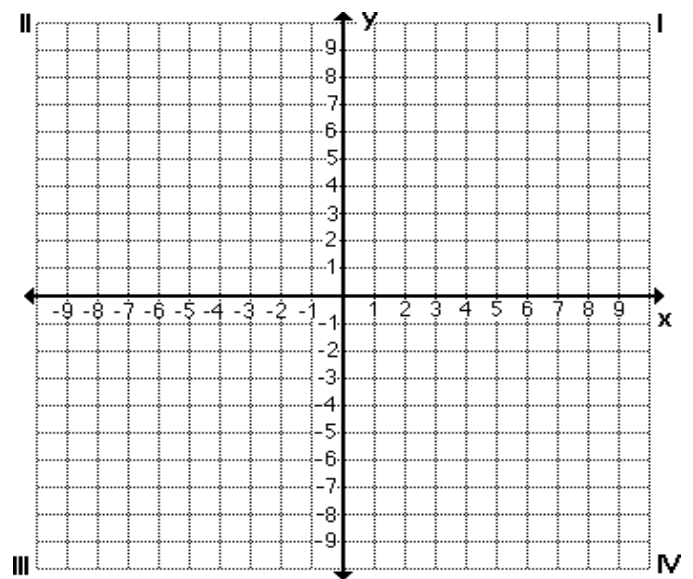
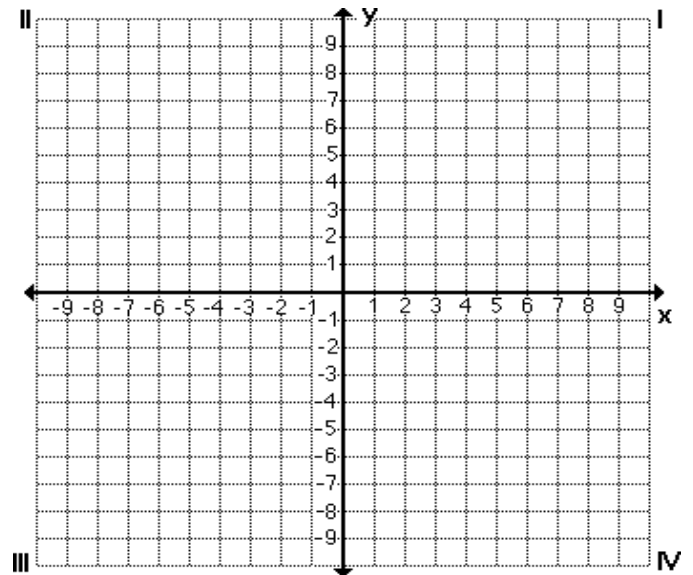
On what interval of x is f increasing?

On what interval of x is f decreasing?

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

Optional: Redraw Graph

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



2. NEW FUNCTION: $f(x) = -(x+3)^2 + 4$

Horizontal Translation:

Reflection:

Vertical Translation:

VERTEX:

Y-INT:

ZERO(S):

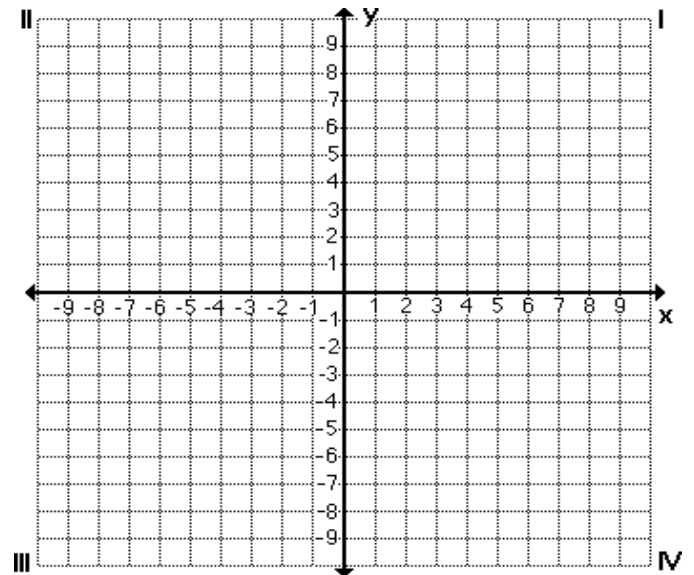
AXIS OF SYMMETRY:

On what interval of x is f increasing?

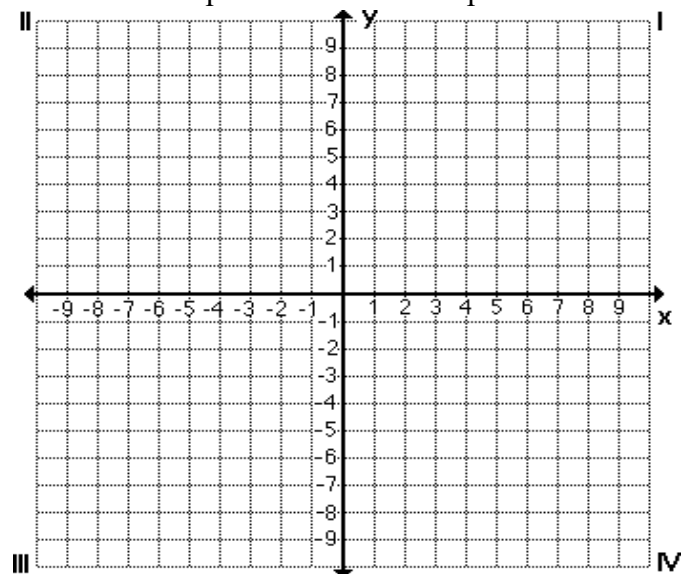
On what interval of x is f decreasing?

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

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



Optional: Redraw Graph



3. NEW FUNCTION: $f(x) = -\frac{1}{3}x + 3$

SLOPE:

Y-INT:

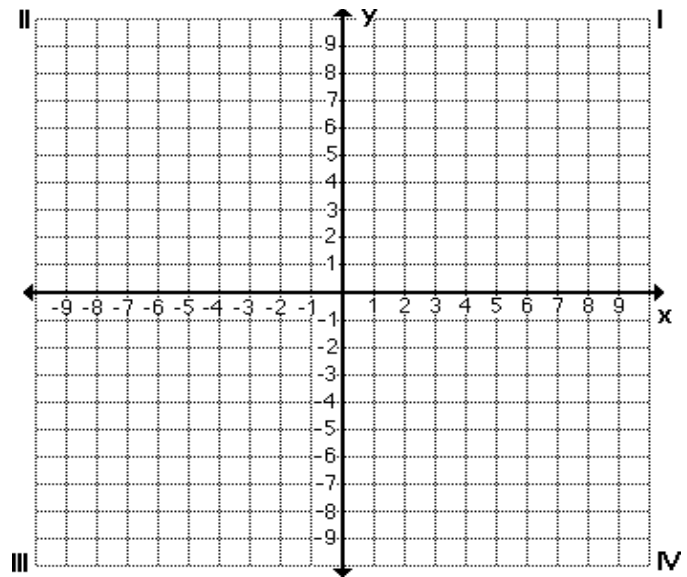
ZERO(S):

On what interval of x is f increasing?

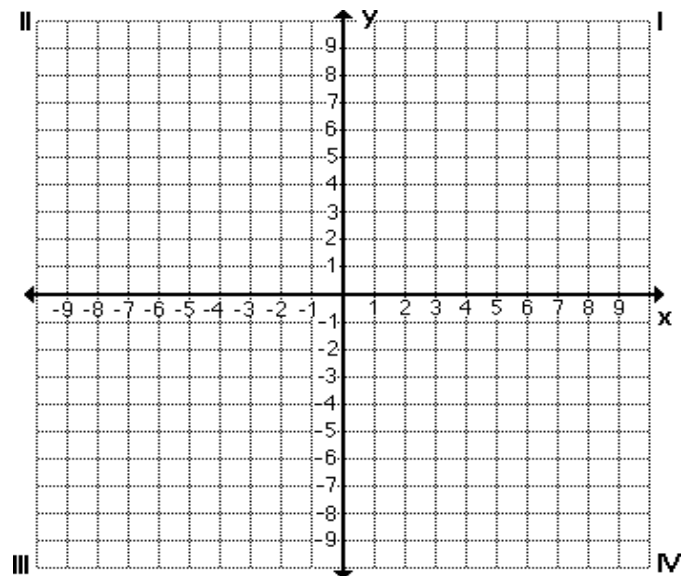
On what interval of x is f decreasing?

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

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



Optional: Redraw Graph



NAME:

DATE:

A2.Q1.BERMELLEEMBO:

GRAPHING FUNCTIONS

(DAY G6)

EXAMINATION REVIEW PRACTICE

TRANSFORMATIONS OF PARENT FUNCTIONS

NO CALCULATORS

1. NEW FUNCTION: $f(x) = 3|x - 5| - 3$

Horizontal Translation:

Reflection:

Dilation:

Slope Ratio:

Vertical Translation:

VERTEX:

Y-INT:

ZERO(S):

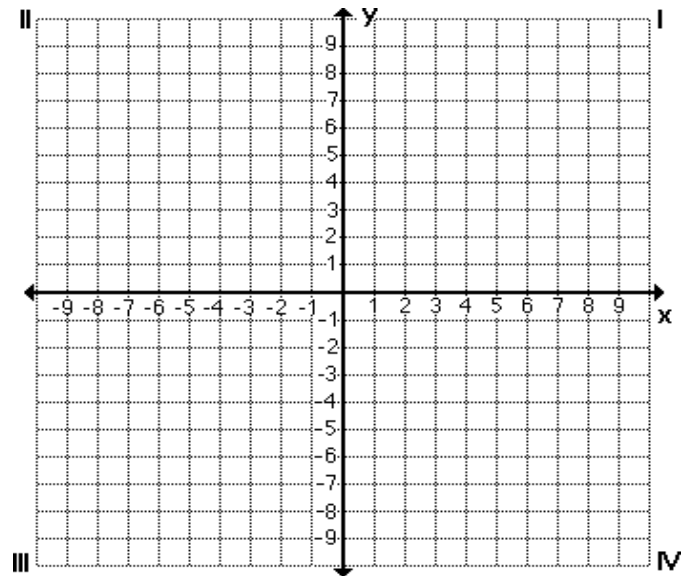
AXIS OF SYMMETRY:

On what interval of x is f increasing?

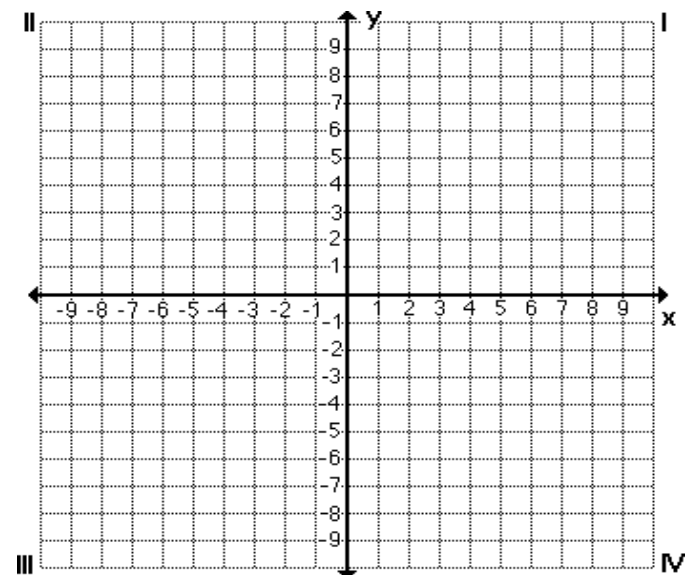
On what interval of x is f decreasing?

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

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



Optional: Redraw Graph



2. NEW FUNCTION: $f(x) = \frac{1}{2}|x+4|+3$

Horizontal Translation:

Reflection:

Dilation:

Slope Ratio:

Vertical Translation:

VERTEX:

Y-INT:

ZERO(S):

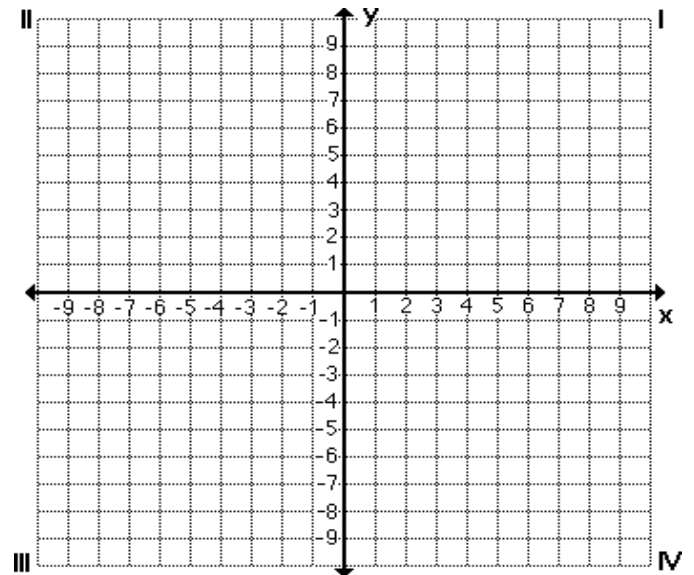
AXIS OF SYMMETRY:

On what interval of x is f increasing?

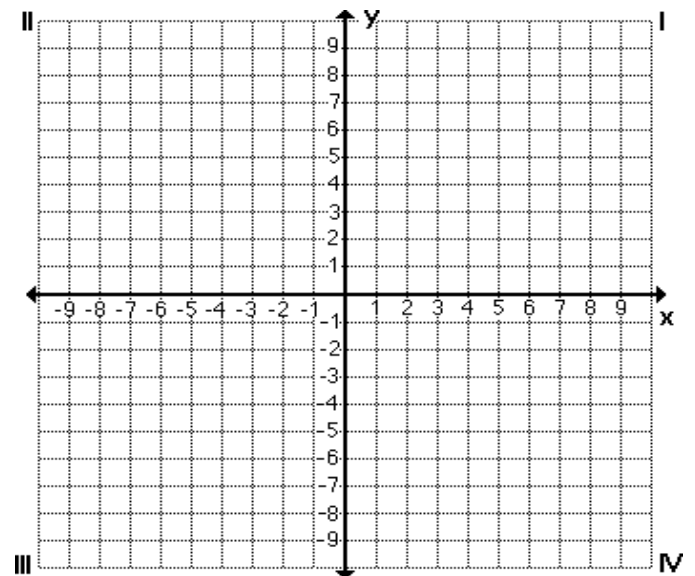
On what interval of x is f decreasing?

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

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



Optional: Redraw Graph



3. NEW FUNCTION: $f(x) = (x+1)^2 - 4$

Horizontal Translation:

Reflection:

Dilation:

Vertical Translation:

VERTEX:

Y-INT:

ZERO(S):

AXIS OF SYMMETRY:

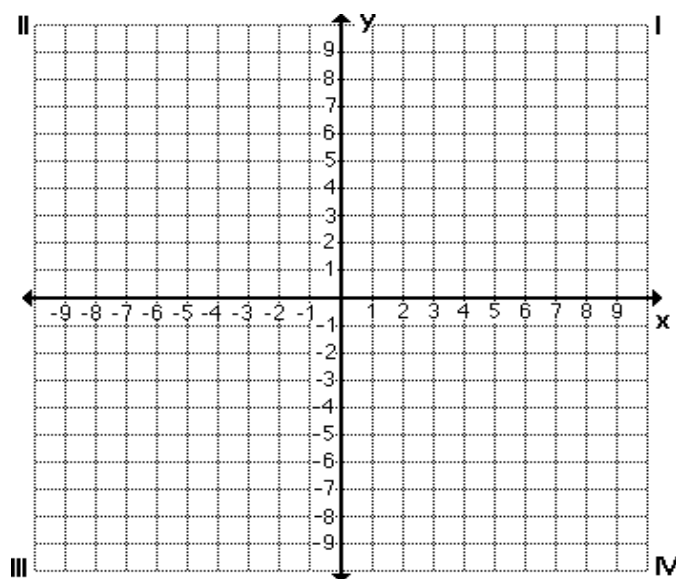
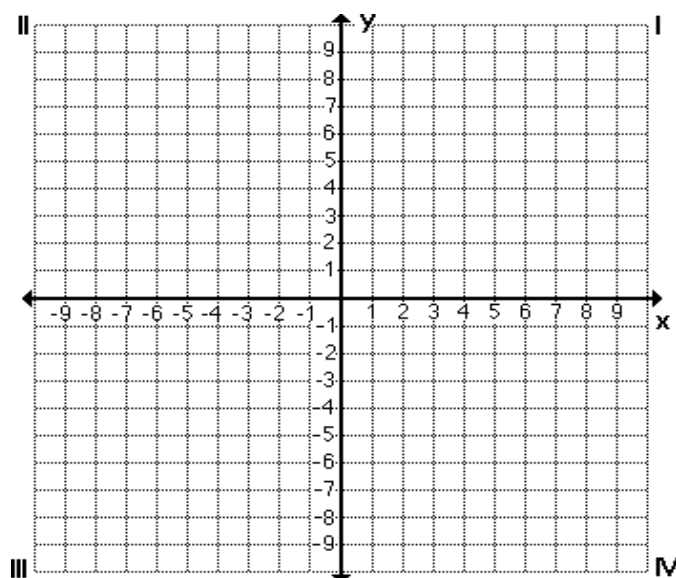
On what interval of x is f increasing?

On what interval of x is f decreasing?

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

Optional: Redraw Graph

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



4. NEW FUNCTION: $f(x) = -(x-3)^2 + 1$

Horizontal Translation:

Reflection:

Dilation:

Vertical Translation:

VERTEX:

Y-INT:

ZERO(S):

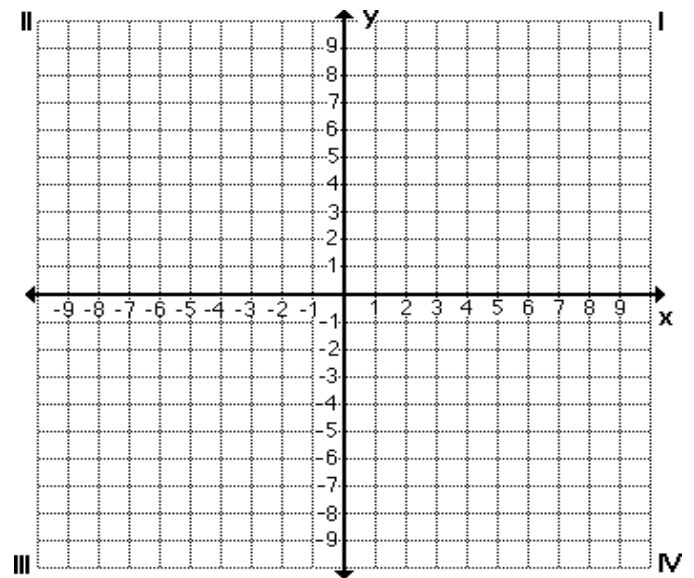
AXIS OF SYMMETRY:

On what interval of x is f increasing?

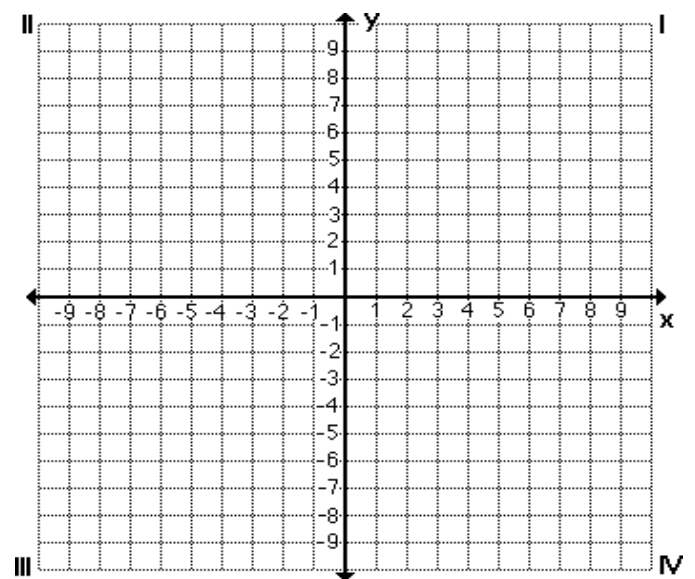
On what interval of x is f decreasing?

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

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



Optional: Redraw Graph



5. NEW FUNCTION: $f(x) = \frac{2}{5}x + 4$

SLOPE:

Y-INT:

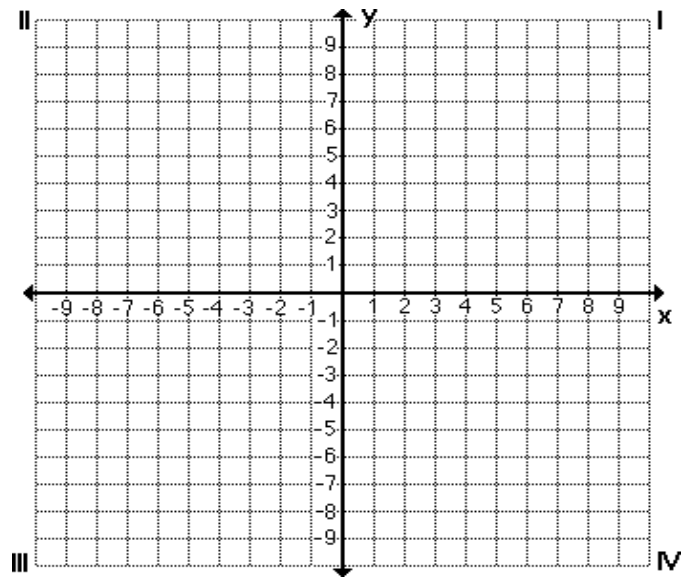
ZERO(S):

On what interval of x is f increasing?

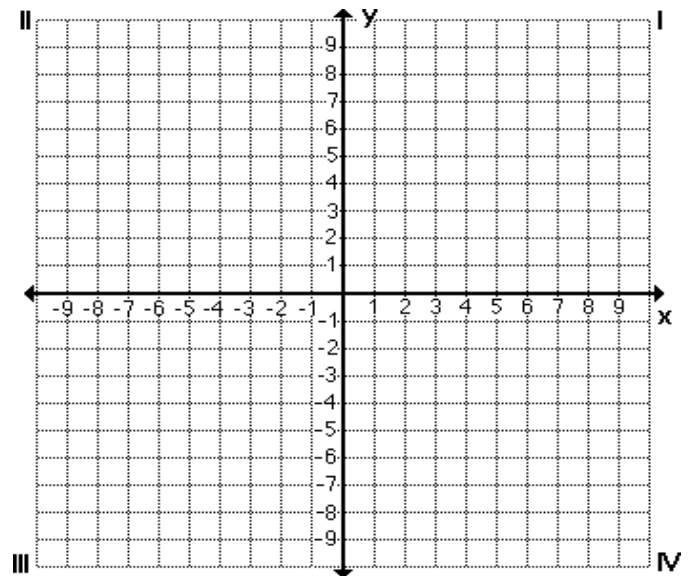
On what interval of x is f decreasing?

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

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



Optional: Redraw Graph



6. NEW FUNCTION: $f(x) = -3x + 6$

SLOPE:

Y-INT:

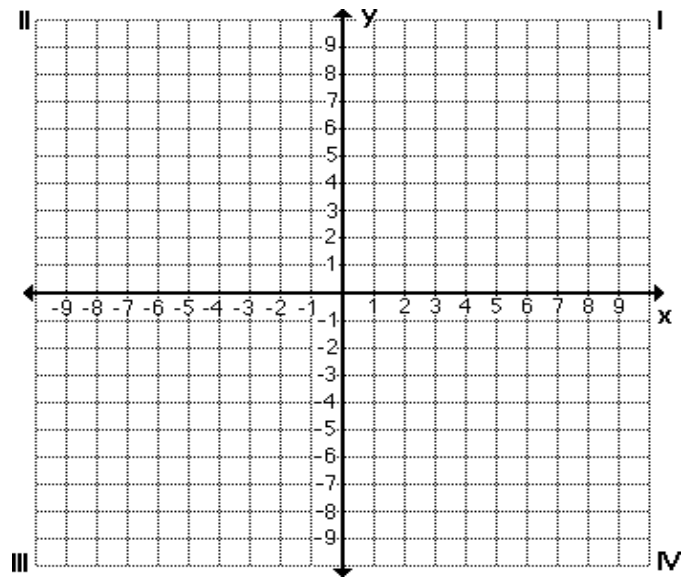
ZERO(S):

On what interval of x is f increasing?

On what interval of x is f decreasing?

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

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



Optional: Redraw Graph

