NAME:

DATE:

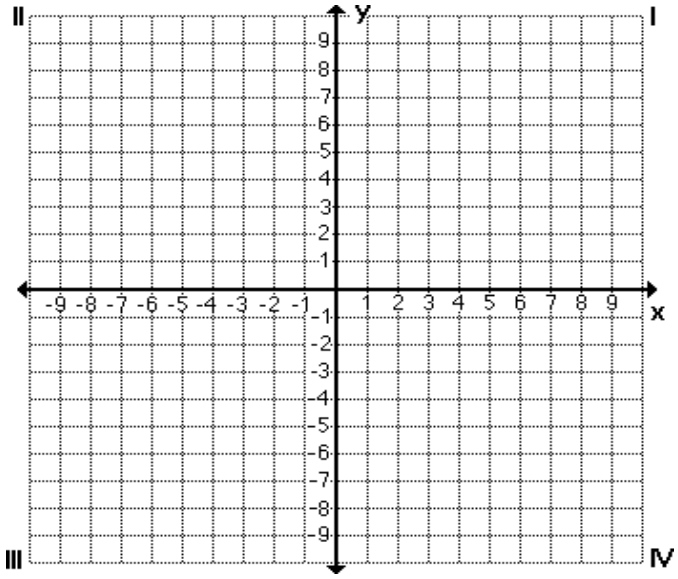
A2.Q1.BERMELLEMBO: GRAPHING FUNCTIONS (DAY G6)

EXAMINATION REVIEW PRACTICE

TRANFORMATIONS 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:

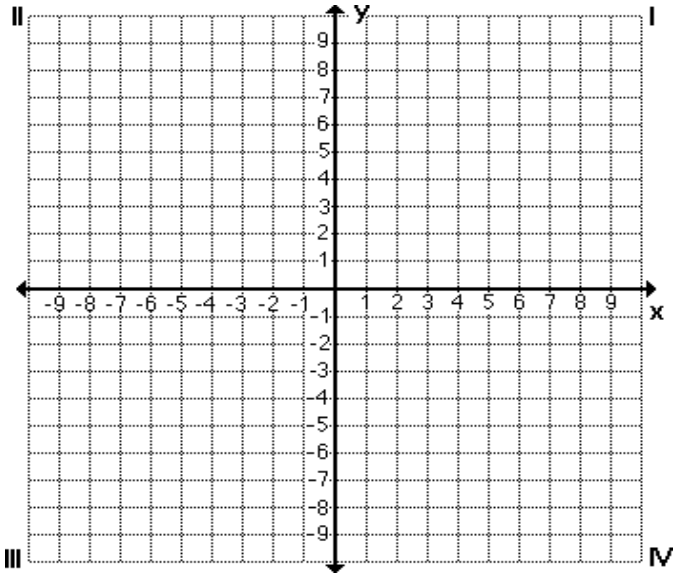
On what interval of x is f increasing?

On what interval of x is f decreasing?

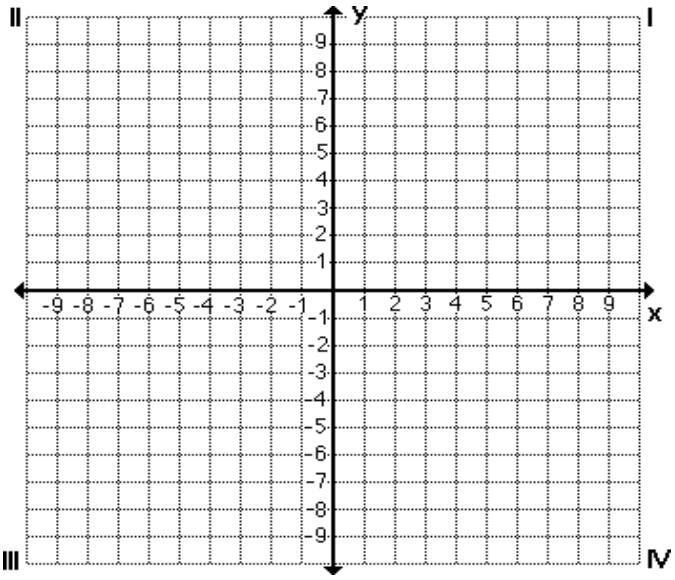
On what interval of x is $f(x) > 0$?

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

Optional: Redraw Graph



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



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Slope Ratio:

Vertical Translation:

VERTEX:

Y-INT:

ZERO(S):

AXIS OF SYMMETRY:

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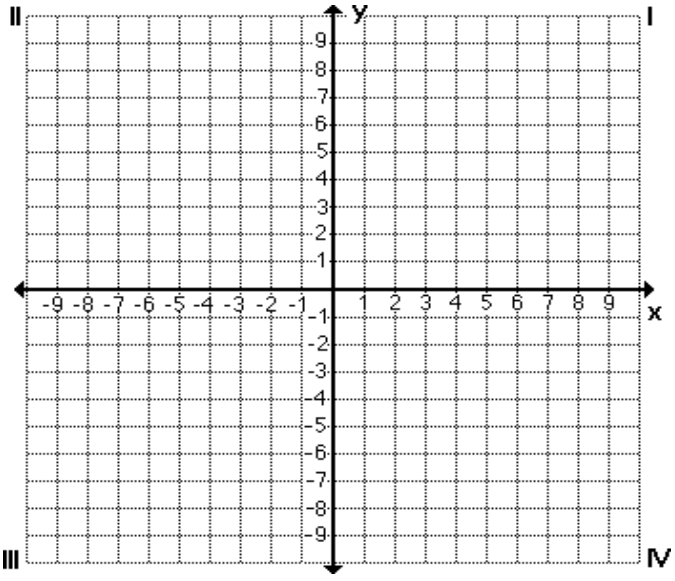
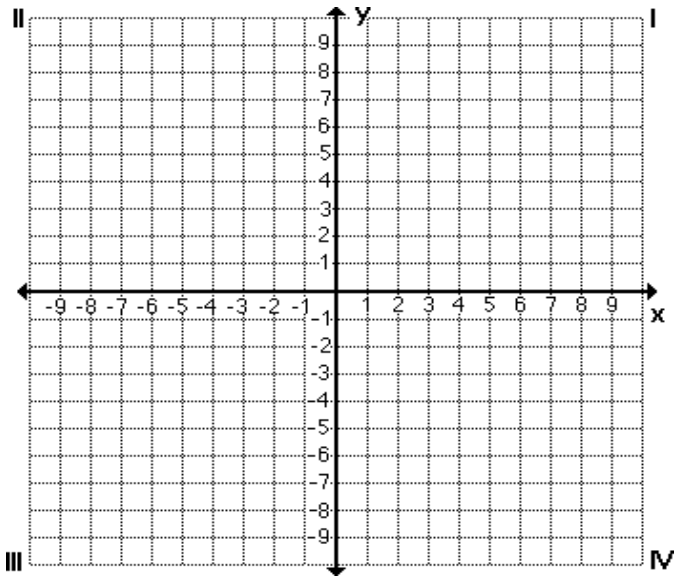
On what interval of x is $f(x)>0$?

Optional: Redraw Graph

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



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



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Vertical Translation:

VERTEX:

Y-INT:

ZERO(S):

AXIS OF SYMMETRY:

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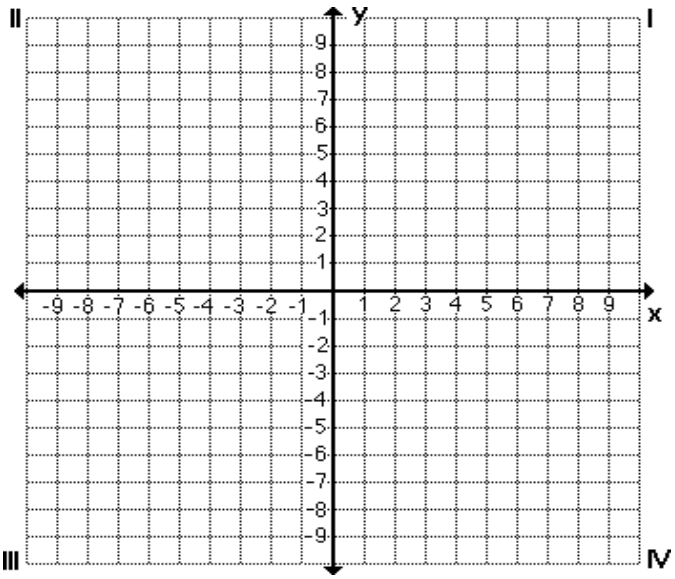
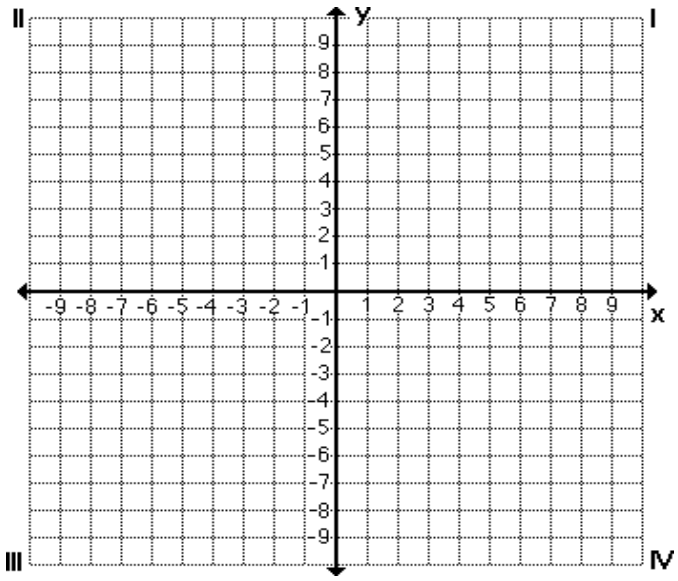
Optional: Redraw Graph



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



Horizontal Translation:

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Vertical Translation:

VERTEX:

Y-INT:

ZERO(S):

AXIS OF SYMMETRY:

On what interval of x is f increasing?

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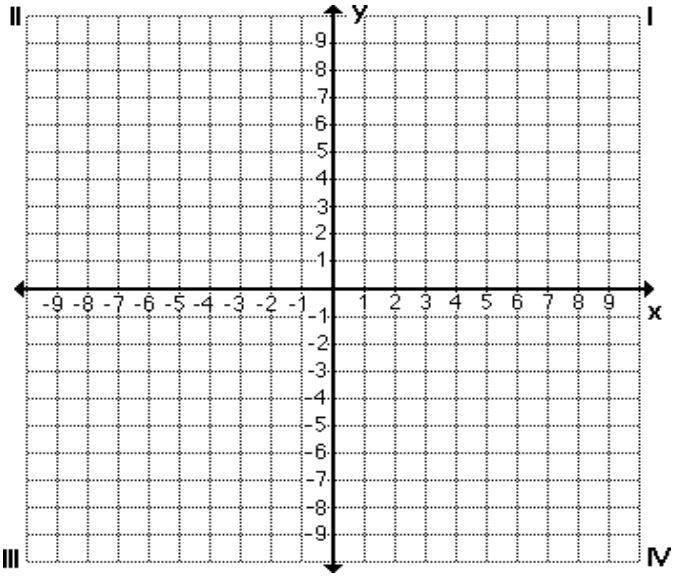
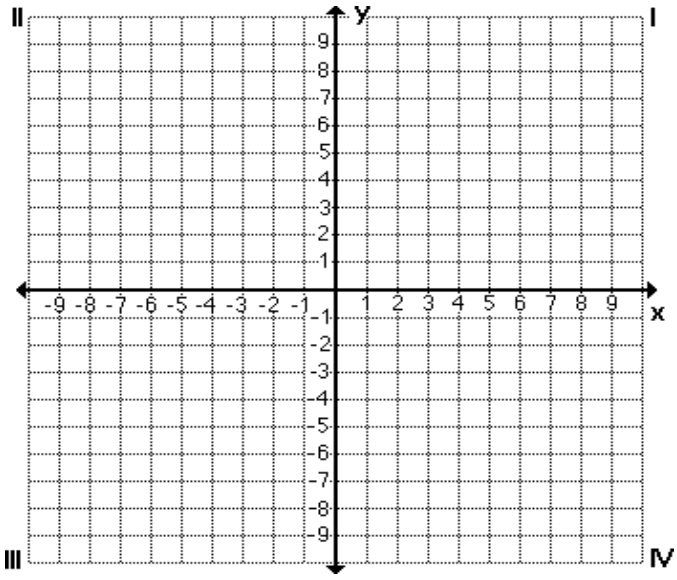
Optional: Redraw Graph



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



SLOPE:

Y-INT:

ZERO(S):

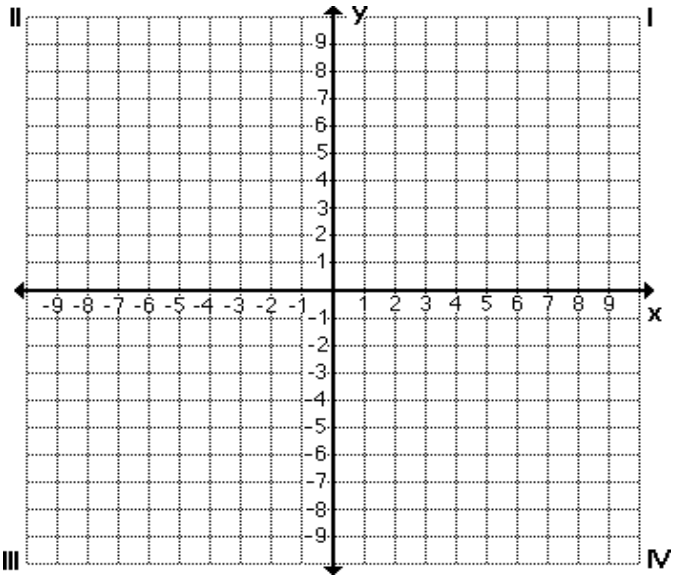
On what interval of x is f increasing?

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:

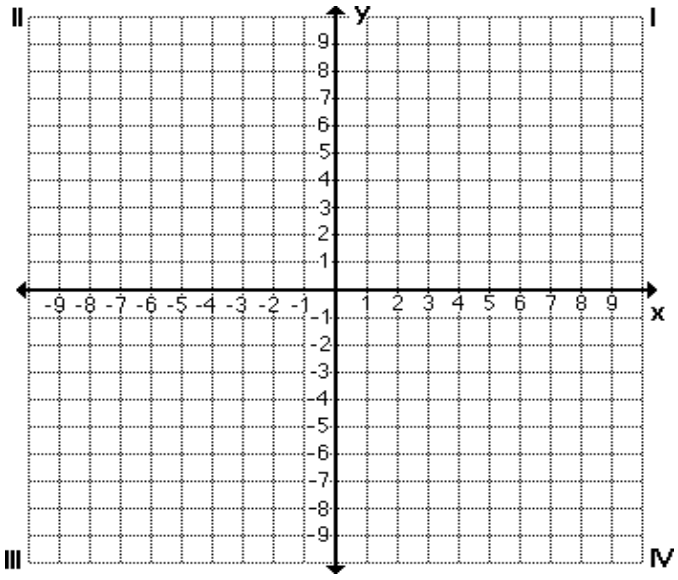
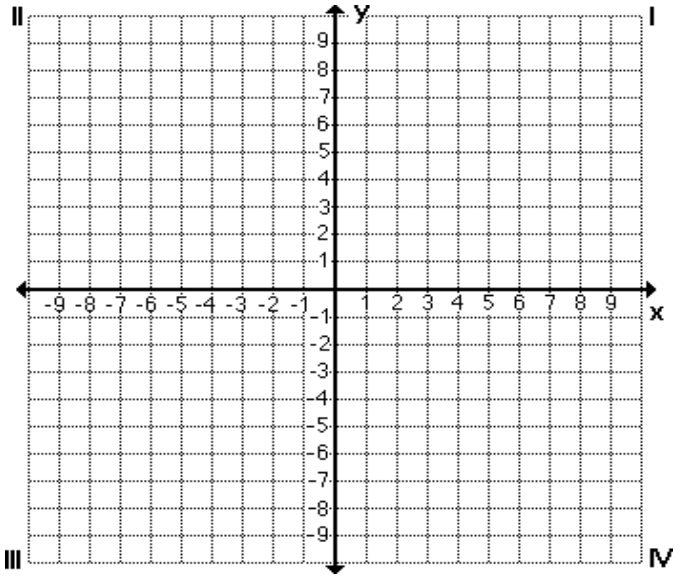
ZERO(S):

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