

NAME:

DATE:

A2.Q1.BERMEL: GRAPHING FUNCTIONS (DAY G4)

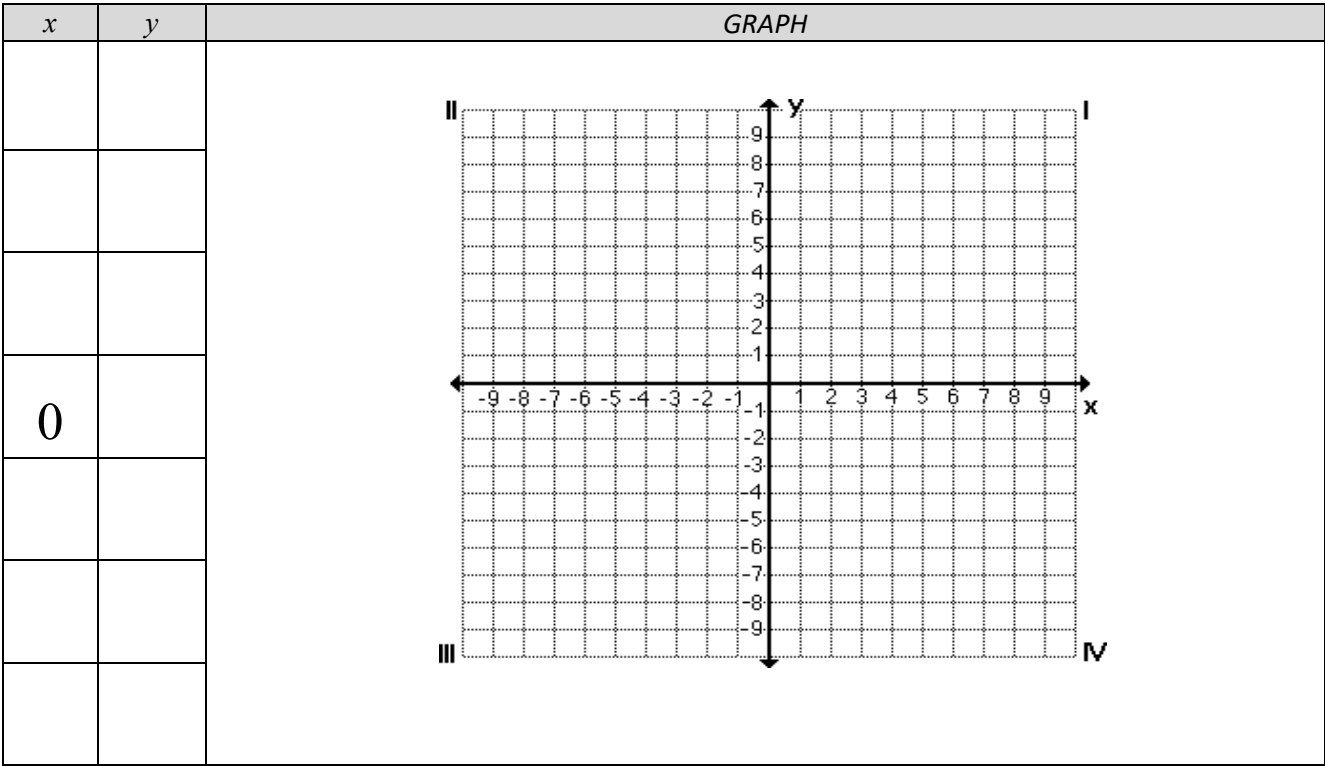
MASTERY PRACTICE

TRANSFORMATIONS OF THE PARENT QUADRATIC FUNCTION

NO CALCULATORS

PARENT: $f(x) = x^2$

TABLE OF VALUES AND GRAPH:



VERTEX:

Y-INT:

AXIS OF SYMMETRY:

ZERO(S):

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

Horizontal Translation:

Reflection:

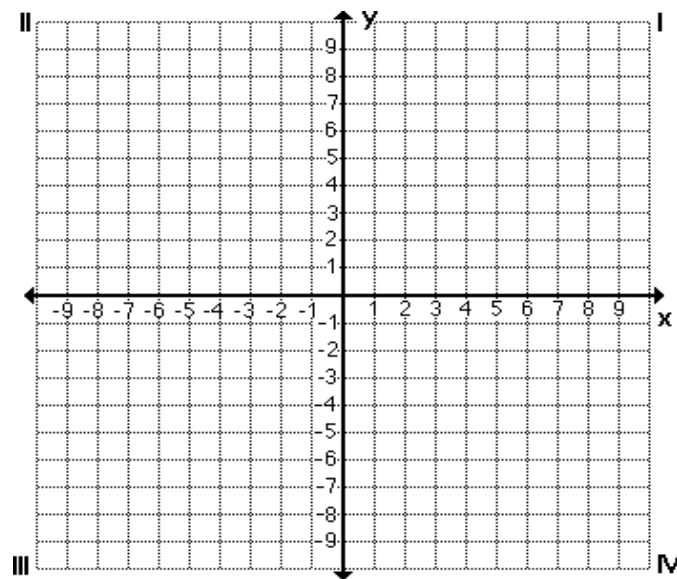
Vertical Translation:

VETEX:

Y-INT:

ZERO(S):

AXIS OF SYMMETRY:



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

Horizontal Translation:

Reflection:

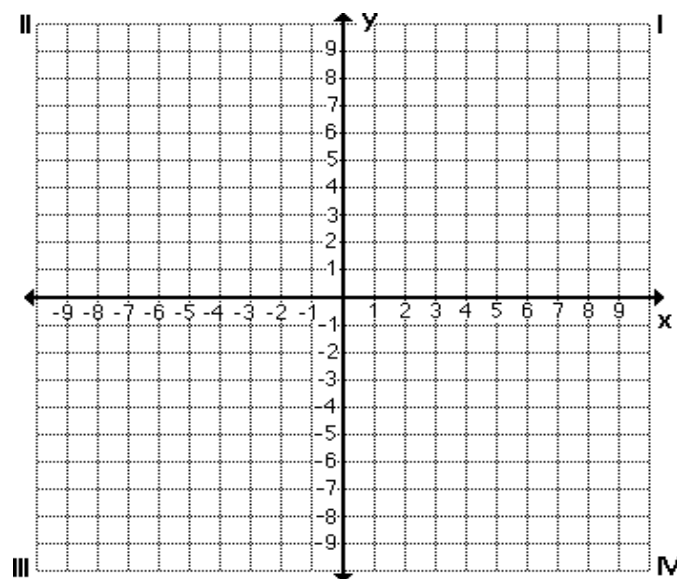
Vertical Translation:

VETEX:

Y-INT:

ZERO(S):

AXIS OF SYMMETRY:



3. NEW FUNCTION: $f(x) = -(x-2)^2 + 9$

Horizontal Translation:

Reflection:

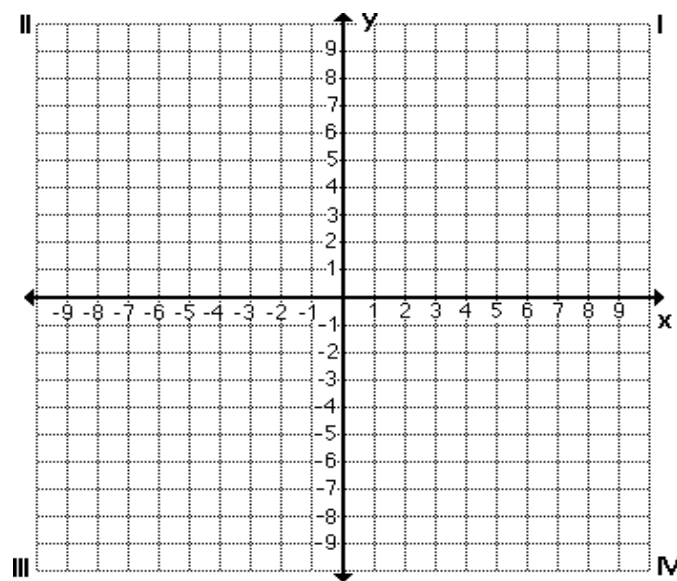
Vertical Translation:

VETEX:

Y-INT:

ZERO(S):

AXIS OF SYMMETRY:



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

Horizontal Translation:

Reflection:

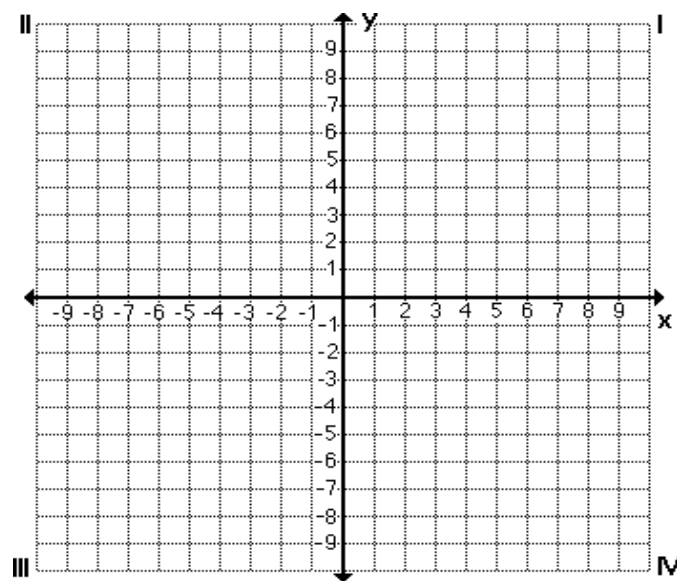
Vertical Translation:

VETEX:

Y-INT:

ZERO(S):

AXIS OF SYMMETRY:



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

Horizontal Translation:

Reflection:

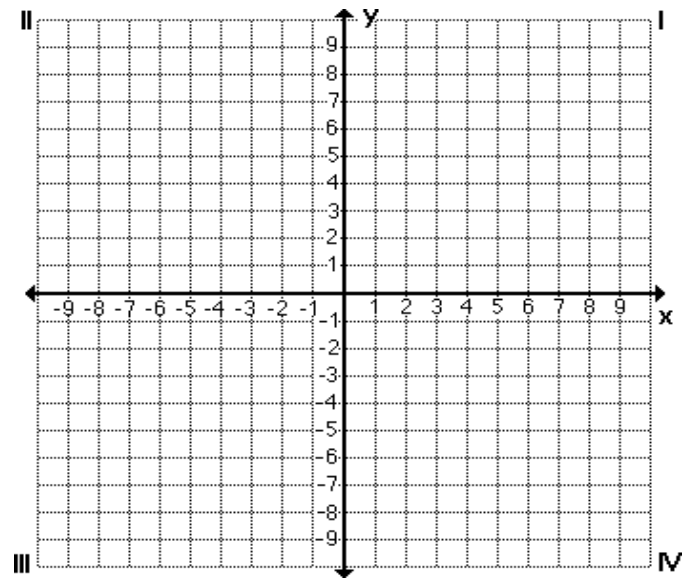
Vertical Translation:

VETEX:

Y-INT:

ZERO(S):

AXIS OF SYMMETRY:



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

Horizontal Translation:

Reflection:

Vertical Translation:

VETEX:

Y-INT:

ZERO(S):

AXIS OF SYMMETRY:

