WAY COOL Algebra Name _____ Period ____

Parabolas Putting It All Together Date _____

1) Declare the **coeffiecients** of each Quadratic.

$y = -x^2 - 2x + 8$

$a =$ _____ $b =$ _____ $c =$ _____

$y = x^2 + 2x - 15$

$a =$ _____ $b =$ _____ $c =$ _____

2) Deterimine the parabola's a) **y-intercept**, b) **direction**, and c) **size**.

a) b) c)

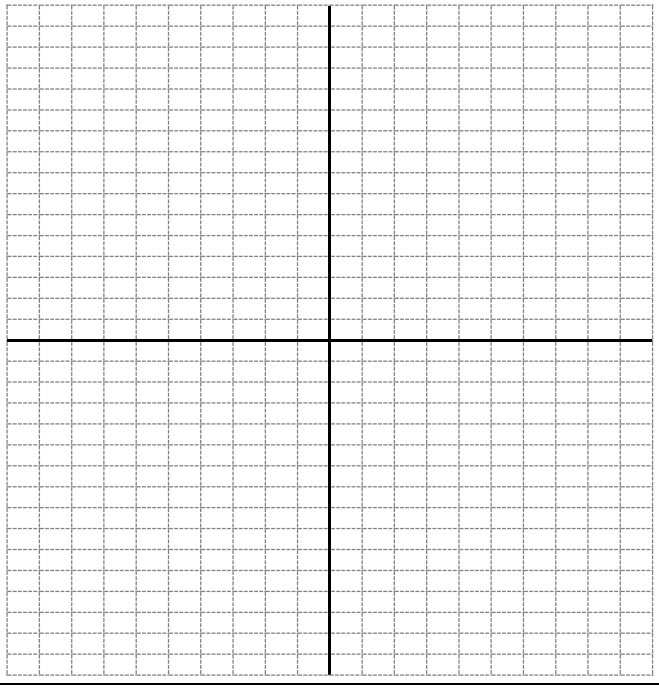
a) b) c)

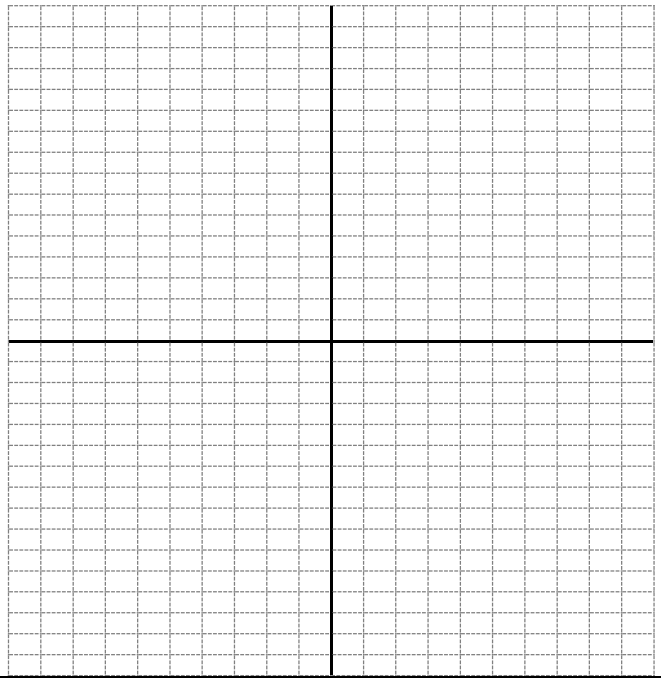
3) Find the **Vertex** of each quadratic's parabola and use it to help make a table of values. SHOW WORK.

(____, ____)

(____, ____)

4) Make a **table** and **graph**. **LABEL** the Vertex, x-intercepts, and y-intercept.





5) Find the **Roots** from your Parabola. How many Solutions does your Quadratic have ?

WAY COOL Algebra Name _____ Period ____

Parabolas Putting It All Together Date _____

1) Declare the **coeffiecients** of each Quadratic.

$y = -x^2 + 6x$

$a =$ _____ $b =$ _____ $c =$ _____

$y = \frac{1}{2}x^2 - 3x + 7$

$a =$ _____ $b =$ _____ $c =$ _____

2) Deterimine the parabola's a) **y-intercept**, b) **direction**, and c) **size**.

a) b) c)

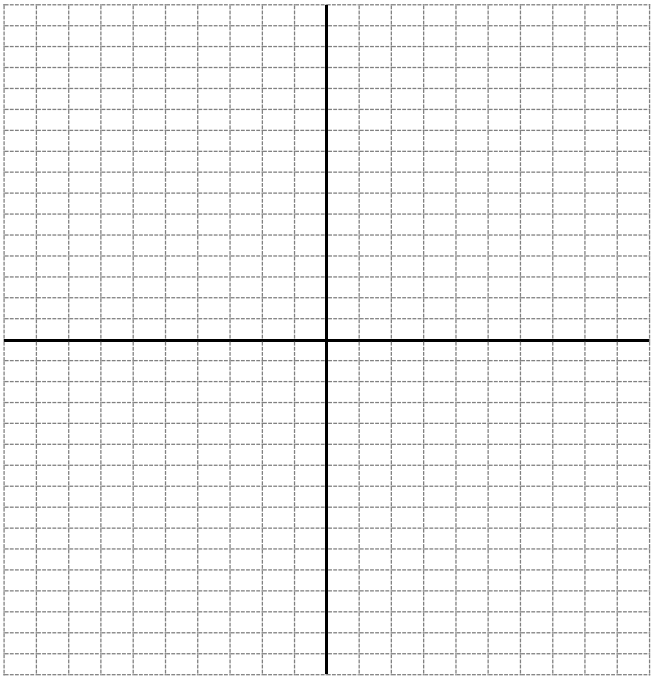
a) b) c)

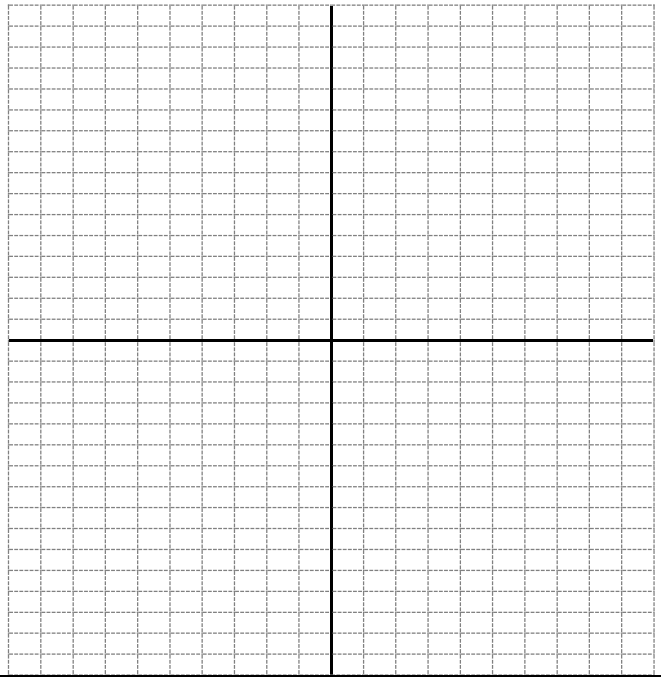
3) Find the **Vertex** of each quadratic's parabola and use it to help make a table of values. SHOW WORK.

(____, ____)

(____, ____)

4) Make a **table** and **graph**. **LABEL** the Vertex, x-intercepts, and y-intercept.





5) Find the **Roots** from your Parabola. How many Solutions does your Quadratic have ?