Name: _____   Date: _____   Period: _____

On the same set of axes, graph the system of equations. Use the axis of symmetry to figure out the table. Remember if your axis of symmetry is a fraction/decimal, you must change your table setup on your calculator to record the exact values of your turning point. All linear equations must be written in y = mx + b format to record m & b.

1) $y = x^2 + 4x + 2$

a =
b =
c =

Find the axis of symmetry:

x	y

$y = 2x + 5$

m =

b =

Check: (,) (,)

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

a =
b =
c =

Find the axis of symmetry:

x	y

$y = x - 8$

m =

b =

Check: (,) (,)

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3) $y = x^2 - 5x + 6$

a =
b =
c =

Find the axis of symmetry:

x	y

$x - y = 2$

m =

b =

Check: (,) (,)

Linear/Quad Charts

4) $y = x^2 - x - 4$

a =

b =

c =

Find the axis of symmetry:

x	y

$y = x - 1$

m =

b =

Check: (,   ) (,   )

5) $y = x^2 - 3x + 2$

a =

b =

c =

Find the axis of symmetry:

x	y

$y = 2x - 2$

m =

b =

Check: (,   ) (,   )

6) $y = -x^2 - x + 1$

a =

b =

c =

Find the axis of symmetry:

x	y

$y = x - 2$

m =

b =

Check: (,   ) (,   )