

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, 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 =

| x | y |
|---|---|
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$y = 2x + 5$
m =
b =

Find the axis of symmetry: | Check: (,) (,)

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

a =
b =
c =

| x | y |
|---|---|
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$y = x - 8$
m =
b =

Find the axis of symmetry: | Check: (,) (,)

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

a =
b =
c =

| x | y |
|---|---|
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$x - y = 2$
m =
b =

Find the axis of symmetry: | Check: (,) (,)

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

a =
b =
c =

| x | y |
|---|---|
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$y = x - 1$
m =
b =

Find the axis of symmetry: | Check: (,) (,)

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

a =
b =
c =

| x | y |
|---|---|
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$y = 2x - 2$
m =
b =

Find the axis of symmetry: | Check: (,) (,)

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

a =
b =
c =

| x | y |
|---|---|
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$y = x - 2$
m =
b =

Find the axis of symmetry: | Check: (,) (,)