

Name: \_\_\_\_\_

**Quiz 9-5 to 9-9 Review**

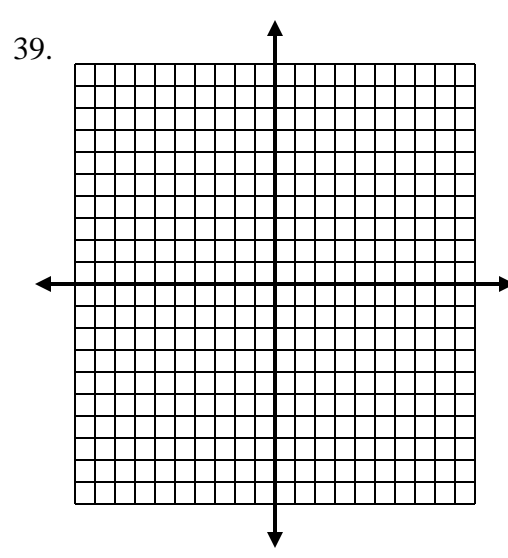
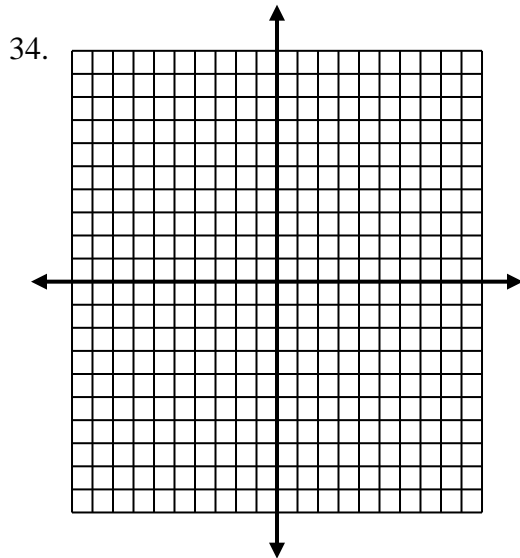
**Section 9-5:** Solving Quadratic Equations by Graphing

Steps to solve:

1. Write the equation as  $0 =$
2. Put a y in for the 0
3. Find a and b
4. Find x  $\left(x = \frac{-b}{2a}\right)$
5. Graph
6. Find zeros (Where  $y = 0$ )

Solve each equation by graphing the related function.

Complete numbers 34 and 39 on **page 686** (ANSWER MUST BE  $x = \underline{\quad}$ )



**Section 9-6:** Solving Quadratic Equations by Factoring

Using the Zero product property (ANSWER MUST BE  $x = \underline{\quad}$ )

Complete numbers 1 and 2 on **page 653**

1.

2.

## Solving Quadratic Equations by Factoring

Steps to solve:

1. Write the equation as  $0 =$
2. Factor the trinomial
3. Use the Zero Product Property to solve for  $x$ . (**ANSWER MUST BE  $x = \underline{\quad}$** )

Complete numbers 41, 43, 44, and 45 on **page 686**

41.

43.

44.

45.

## **Section 9-7:** Solving Quadratic Equations by Using Square Roots

Steps to solve

1. Get  $x^2$  by itself
2. Take the square root of each side
3. Must have + or –

Complete numbers 50-53 on **page 687**

50.

51.

52.

53.

**Section 9-9:** The Quadratic Formula and the Discriminant

1. Write the equation as  $0 =$
2. Find a, b, and c
3. Use Quadratic Formula to solve:  $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$  (ANSWER MUST BE X= )

Complete numbers 60 and 63 on **page 687**

60.

63.

Find how many solution there are using the Discriminant:

1. Find  $b^2 - 4ac$
2. If positive there are 2 solutions.  
If zero there is 1 solution.  
If negative there is no solution.

Complete numbers 64 and 65 on **page 687**

64.

65.