

# 4-2 Study Guide and Intervention

## Solving Quadratic Equations by Graphing

### Solve Quadratic Equations

<b>Quadratic Equation</b>	A quadratic equation has the form $ax^2 + bx + c = 0$ , where $a \neq 0$ .
<b>Roots of a Quadratic Equation</b>	solution(s) of the equation, or the zero(s) of the related quadratic function

The roots of a quadratic function are the  $x$ -intercepts of its graph. Therefore, finding the  $x$ -intercepts is one way of solving the related quadratic equation.

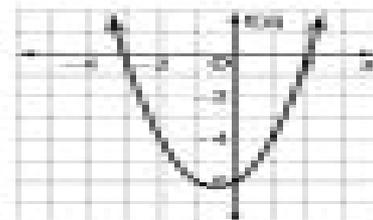
**Example:** Solve  $x^2 + x - 6 = 0$  by graphing.

Graph the related function,  $f(x) = x^2 + x - 6$ .

The  $x$ -coordinate of the vertex is  $-\frac{b}{2a} = -\frac{1}{2}$ , and the equation of the axis of symmetry is  $x = -\frac{1}{2}$ .

Make a table of values using  $x$ -values around  $-\frac{1}{2}$ .

$x$	-1	$-\frac{1}{2}$	0	1	2
$f(x)$	-6	$-6\frac{1}{4}$	-6	-4	0

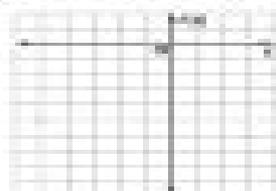


From the table and the graph, we can see that the roots of the function are 2 and -3.

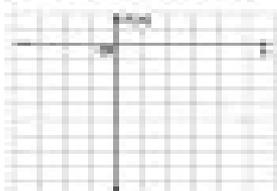
### Exercises

Use the related graph of each equation to determine its solution.

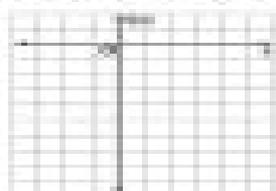
1.  $x^2 + 2x - 8 = 0$



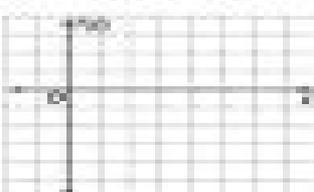
2.  $x^2 - 4x - 5 = 0$



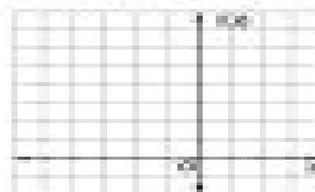
3.  $x^2 - 5x + 4 = 0$



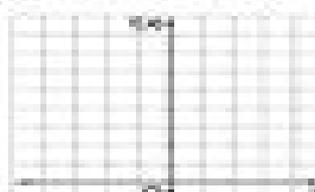
4.  $x^2 - 10x + 21 = 0$



5.  $x^2 + 4x + 6 = 0$



6.  $4x^2 + 4x + 1 = 0$



# 6 1 Study Guide And Intervention Graphing Quadratic Functions

**Norman Balason**



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