

Name: Key

Date: _____

Topic: _____

Class: _____

Main Ideas/Questions

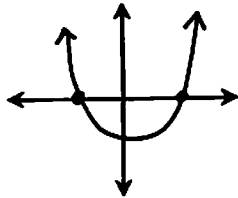
Notes/Examples

Solutions to a
QUADRATIC EQUATION

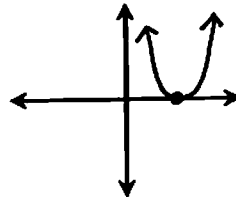
- The solutions to a quadratic equation are the points at which the function intersects the X - AXIS.
- The solutions are also referred to as Zeros, roots or X - intercepts

Number of
Solutions

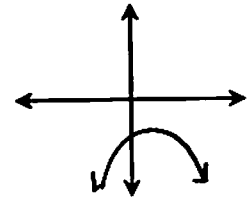
2 SOLUTIONS



1 SOLUTION



NO REAL SOLUTIONS



SOLVE BY GRAPHING

Solutions:

1. $x = \{-3, 1\}$

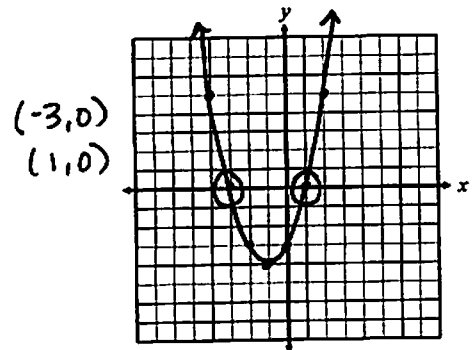
2. $x = \{-5, -5\}$

3. $x = \{2, 4\}$

Directions: Find the solutions to each quadratic equation by graphing.

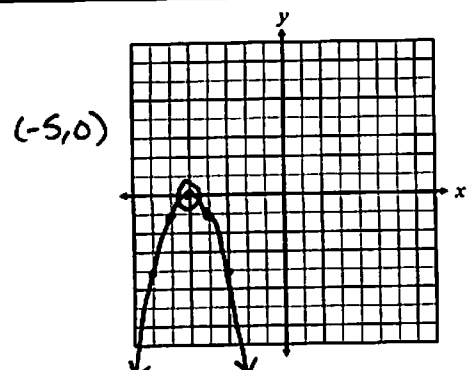
1. $f(x) = x^2 + 2x - 3$

X	Y
-4	5
-3	0
-2	-3
-1	-4
0	-3
1	0
2	5



2. $f(x) = -x^2 - 10x - 25$

X	Y
-8	-9
-7	-4
-6	-1
-5	0
-4	-1
-3	-4
-2	-9



3. $f(x) = x^2 - 6x + 8$

X	Y
0	8
1	3
2	0
3	-1
4	0
5	3
6	8

