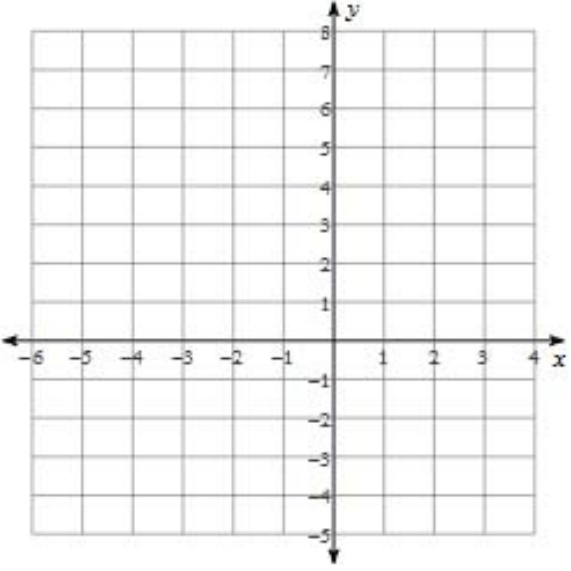
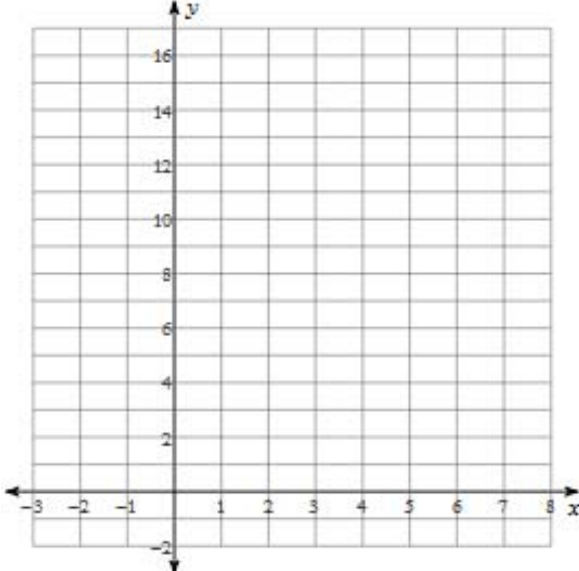


# 10.1 Intro to Quadratics

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

## Corrective Assignment

Directions: Fill in the empty boxes. Place info on graph and sketch graph.			
1) Equation in Standard Form:	$F(x) = x^2 + 6x + 5$		
Equation in Factored Form:			
x-intercepts:			
y-intercept:			
Point symmetric to y-intercept:			
Leading Coefficient:			
Axis of Symmetry:		Vertex represents a Minimum or Maximum:	
Parabola opens which way:		Vertex:	

2) Equation in Standard Form:			
Equation in Factored Form:	$F(x) = (x - 2)(x - 4)$		
x-intercepts:			
y-intercept:			
Point symmetric to y-intercept:			
Leading Coefficient:			
Axis of Symmetry:		Vertex represents a Minimum or Maximum:	
Parabola opens which way:		Vertex:	

3) Equation in Standard Form:	$F(x) = -x^2 + 9$	
Equation in Factored Form:		
x-intercepts:		
y-intercept:		
Point symmetric to y-intercept:		
Leading Coefficient:		
Axis of Symmetry:		Vertex represents a Minimum or Maximum:
Parabola opens which way:		Vertex:

## 10.1 Intro To Quadratics

## Corrective Assignment Answers

1) Equation in Standard Form:	$F(x) = x^2 + 6x + 5$	
Equation in Factored Form:	$F(x) = (x+5)(x+1)$	
x-intercepts:	$(-5, 0)$ $(-1, 0)$	
y-intercept:	$(0, 5)$	
Point symmetric to y-intercept:	$(-6, 5)$	
Leading Coefficient:		
Axis of Symmetry:	$\frac{-5+1}{2} = \frac{-6}{2} = -3 \quad   \quad x = -3$	Vertex represents a Minimum or Maximum:
Parabola opens which way:	UP	Vertex:

2) Equation in Standard Form:	$f(x) = x^2 - 2x - 4x + 8$ $f(x) = x^2 - 6x + 8$		
Equation in Factored Form:	$F(x) = (x - 2)(x - 4)$		
x-intercepts:	$(2, 0)$ $(4, 0)$		
y-intercept:	$(0, 8)$		
Point symmetric to y-intercept:	$(6, 8)$		
Leading Coefficient:	1		
Axis of Symmetry:	$\frac{2+4}{2} = 3$ $x = 3$		
Parabola opens which way:	UP	Vertex:	$(3, -1)$

3) Equation in Standard Form:	$f(x) = -x^2 + 9$ $= -(x^2 - 9)$		
Equation in Factored Form:	$f(x) = (x - 3)(x + 3)$		
x-intercepts:	$(3, 0)$ $(-3, 0)$		
y-intercept:	$(0, 9)$		
Point symmetric to y-intercept:	NONE		
Leading Coefficient:	-1		
Axis of Symmetry:	$\frac{-3+3}{2} = 0$ $x = 0$		
Parabola opens which way:	DOWN	Vertex:	$(0, 9)$