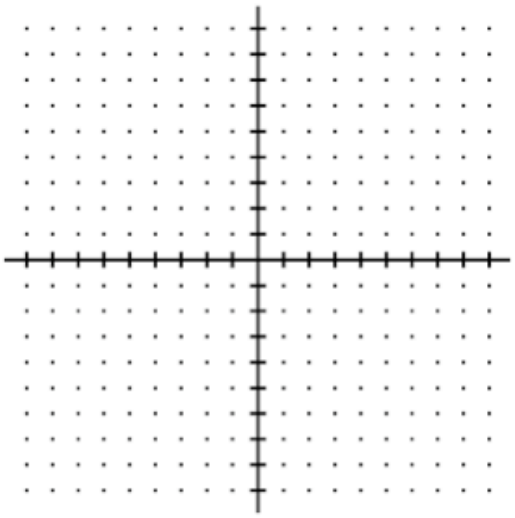
AGENDA

Review Factoring To Solve for Roots

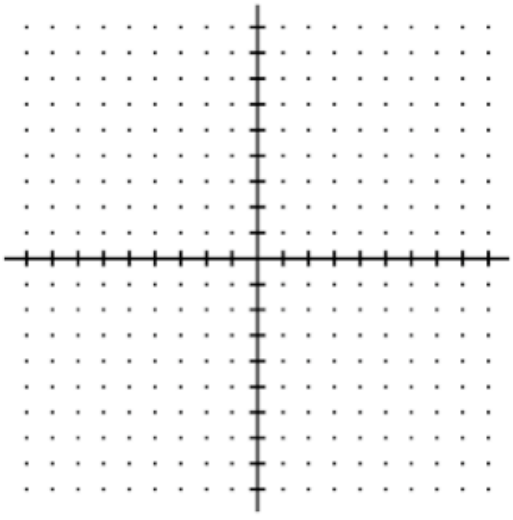
1) DEMO at Board
2) STATIONS worksheets (4 min per station)
3) Exit Ticket

HW: Finish 2 HW STATIONS sheets

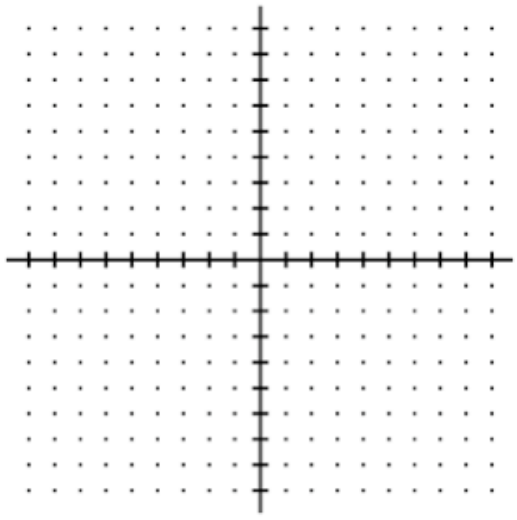
STATIONS DEMO: Strategy for Factoring Quadratic Trinomials
$Ax^2 + Bx + C$

1) Find two factors that multiply to C **$y = x^2 + 4x - 5$**	2) Choose the pair of factors that combine (add or subtract) to B +_____ +_____ - _____ - _____ +_____ - _____ -_____ +_____
3) Put them into the Factored form y = (x _____) (x _____) 4) Set y = 0 to solve for the roots. 0 = (x _____) (x _____) 0 = x _____ or 0 = x _____	

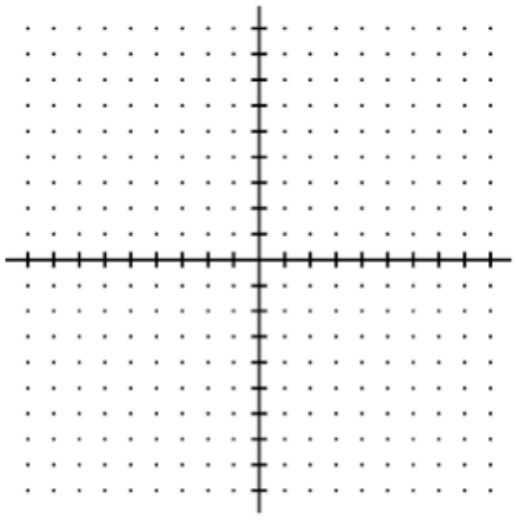
STATIONS DEMO: Strategy for Factoring Quadratic Binomials
$Ax^2 + Bx$

1) Find the greatest common factor (GCF) of the two terms. **$y = x^2 + 4x$**	2) Put into factored form: **y = (GCF) ("left over")**
3) Set y = 0 to solve for the roots. **0 = (GCF) ("left over")** 0 = _____ or 0 = _____	4) Plot the roots. 

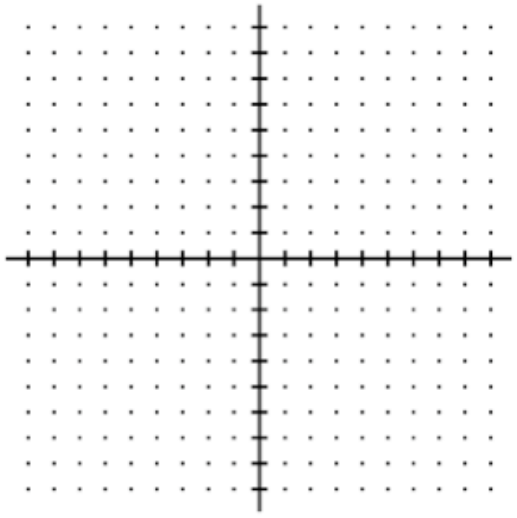
STATIONS 1: Strategy for Factoring Quadratic Trinomials
$Ax^2 + Bx + C$

1) Find two factors that multiply to C **$y = x^2 - 2x - 8$**	2) Choose the pair of factors that combine (add or subtract) to B +_____ +_____ - _____ - _____ +_____ - _____ -_____ +_____
3) Put them into the Factored form y = (x _____) (x _____) 4) Set y = 0 to solve for the roots. 0 = (x _____) (x _____) 0 = x _____ or 0 = x _____	

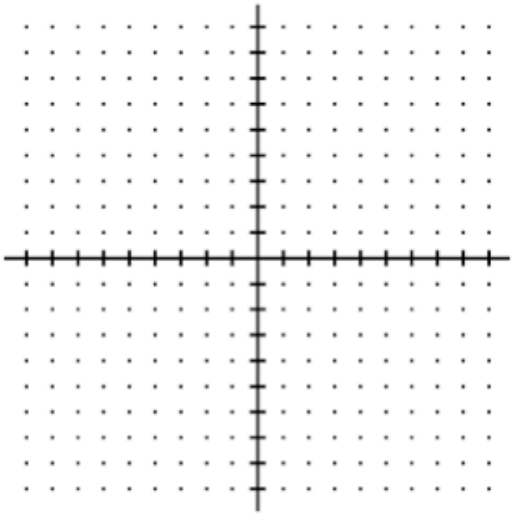
STATIONS 2: Strategy for Factoring Quadratic Trinomials
$Ax^2 + Bx + C$

1) Find two factors that multiply to C **$y = x^2 - 6x - 7$**	2) Choose the pair of factors that combine (add or subtract) to B +_____ +_____ - _____ - _____ +_____ - _____ -_____ +_____
3) Put them into the Factored form y = (x _____) (x _____) 4) Set y = 0 to solve for the roots. 0 = (x _____) (x _____) 0 = x _____ or 0 = x _____	

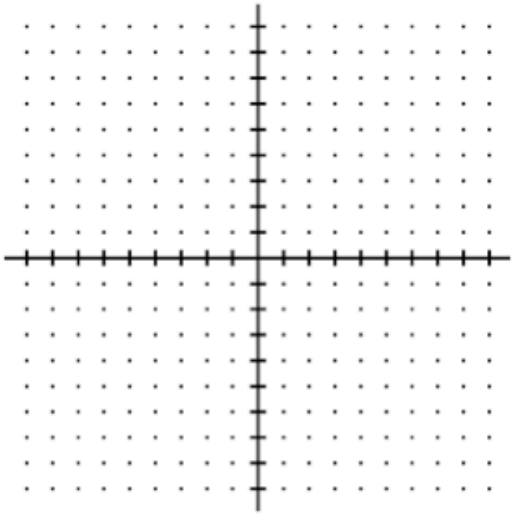
STATIONS 3: Strategy for Factoring Quadratic Trinomials
$Ax^2 + Bx + C$

1) Find two factors that multiply to C **$y = x^2 - 10x + 16$**	2) Choose the pair of factors that combine (add or subtract) to B +_____ +_____ - _____ - _____ +_____ - _____ -_____ +_____
3) Put them into the Factored form y = (x _____) (x _____) 4) Set y = 0 to solve for the roots. 0 = (x _____) (x _____) 0 = x _____ or 0 = x _____	

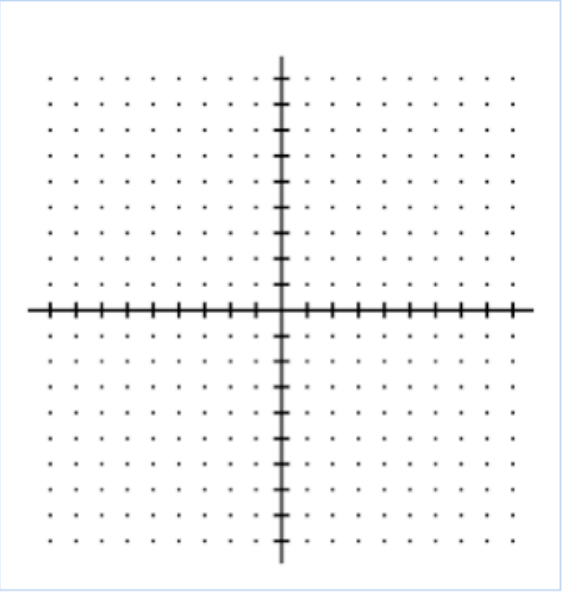
STATIONS 4: Strategy for Factoring Quadratic Trinomials
$Ax^2 + Bx + C$

1) Find two factors that multiply to C **$y = x^2 - 4x + 3$**	2) Choose the pair of factors that combine (add or subtract) to B +_____ +_____ - _____ - _____ +_____ - _____ -_____ +_____
3) Put them into the Factored form y = (x _____) (x _____) 4) Set y = 0 to solve for the roots. 0 = (x _____) (x _____) 0 = x _____ or 0 = x _____	

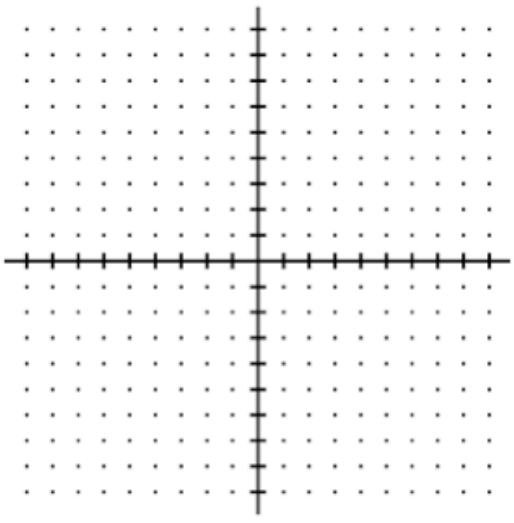
STATIONS 5: Strategy for Factoring Quadratic Binomials
$Ax^2 + Bx$

1) Find the greatest common factor (GCF) of the two terms. **$y = x^2 - 6x$**	2) Put into factored form: **y = (GCF) ("left over")**
3) Set y = 0 to solve for the roots. **0 = (GCF) ("left over")** 0 = _____ or 0 = _____	4) Plot the roots. 

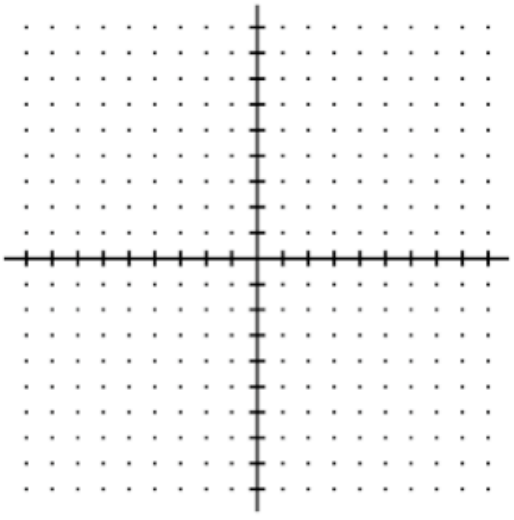
STATIONS 6: Strategy for Factoring Quadratic Binomials
$Ax^2 + Bx$

1) Find the greatest common factor (GCF) of the two terms. **$y = 2x^2 - 6x$**	2) Put into factored form: **y = (GCF) ("left over")**
3) Set y = 0 to solve for the roots. **0 = (GCF) ("left over")** 0 = _____ or 0 = _____	4) Plot the roots. 

STATIONS 7: Strategy for Factoring Quadratic Binomials
$Ax^2 + Bx$

1) Find the greatest common factor (GCF) of the two terms. **$y = 4x^2 + 16x$**	2) Put into factored form: **y = (GCF) ("left over")**
3) Set y = 0 to solve for the roots. **0 = (GCF) ("left over")** 0 = _____ or 0 = _____	4) Plot the roots. 

STATIONS 8: Strategy for Factoring Quadratic Binomials
$Ax^2 + Bx$

1) Find the greatest common factor (GCF) of the two terms. **$y = 5x^2 + 15x$**	2) Put into factored form: **y = (GCF) ("left over")**
3) Set y = 0 to solve for the roots. **0 = (GCF) ("left over")** 0 = _____ or 0 = _____	4) Plot the roots. 

Name_____

Block_____

_____ out of 4 EXIT Ticket

Factor: 1) $x^2 + 5x - 14$	Factor: 2) $x^2 + 5x$

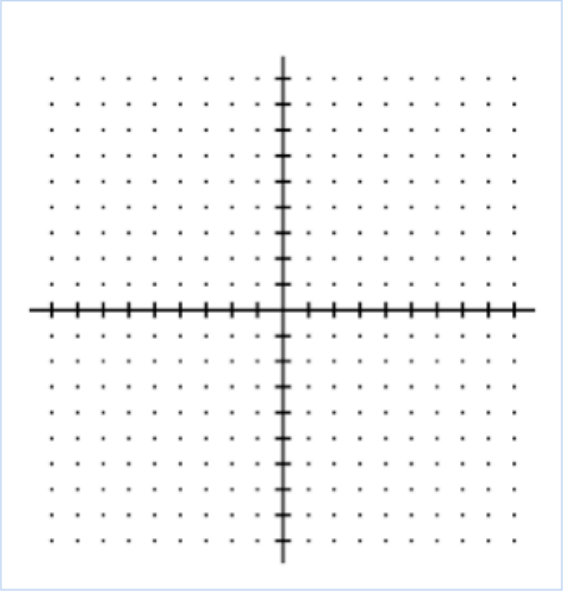
Name_____

Block_____

_____ out of 4 EXIT Ticket

Factor: 1) $x^2 + 3x - 18$	Factor: 2) $x^2 + 3x$

STATIONS HW: Strategy for Factoring Quadratic Trinomials
$Ax^2 + Bx$

1) Find the greatest common factor (GCF) of the two terms. **$y = x^2 + 7x$**	2) Put into factored form: **y = (GCF) ("left over")**
3) Set y = 0 to solve for the roots. **0 = (GCF) ("left over")** 0 = _____ or 0 = _____	4) Plot the roots. 

STATIONS HW: Strategy for Factoring Quadratic Trinomials
$Ax^2 + Bx + C$

1) Find two factors that multiply to C **$y = x^2 + 14x + 45$**	2) Choose the pair of factors that combine (add or subtract) to B +_____ +_____ - _____ - _____ +_____ - _____ -_____ +_____
3) Put them into the Factored form y = (x _____) (x _____) 4) Set y = 0 to solve for the roots. 0 = (x _____) (x _____) 0 = x _____ or 0 = x _____