

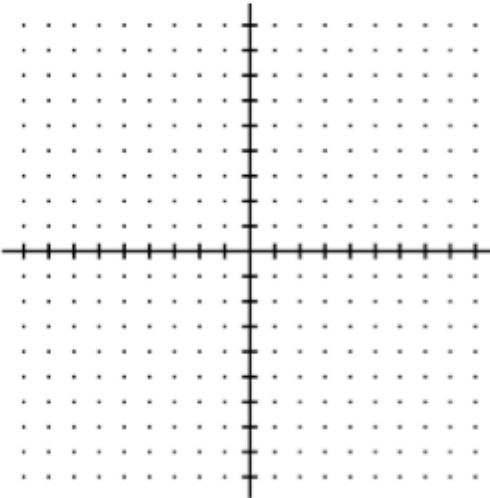
AGENDA

Review Graphing Parabolas by Factoring

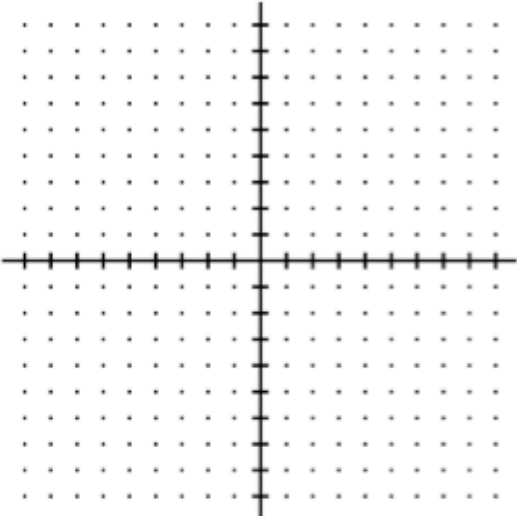
- 1) DEMO at Board
- 2) LINKS Stations (8 min per station)
- 3) Exit Ticket

HW: Finish LINKS sheets

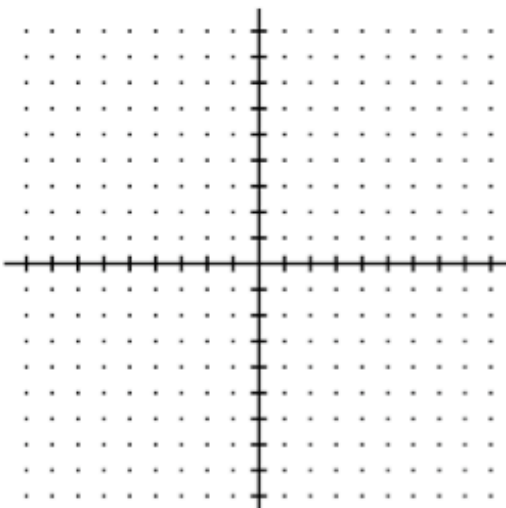
LINKS DEMO: Graphing a Parabola by **Factoring**

<p>1) Factor the equation. $y = x^2 - x - 6$</p> <p>2) Solve for the roots. Plot the roots</p>	<p>3) Find the axis of symmetry. $x = \underline{\hspace{2cm}}$</p> <p>4) Find vertex. Plot vertex.</p>
<p>5) Plot y intercept.</p> <p>6) Plot symmetrical point.</p> <p>7) Check- should your graph open up or down?</p>	<p style="text-align: center;">Graph</p> 

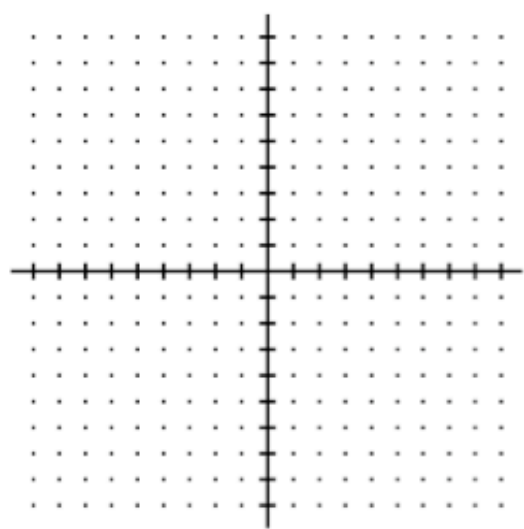
LINKS 1: Graphing a Parabola by **Factoring**

<p>1) Factor the equation. $y = x^2 - 2x - 8$</p> <p>2) Solve for the roots. Plot the roots</p>	<p>3) Find the axis of symmetry. $x = \underline{\hspace{2cm}}$</p> <p>4) Find vertex. Plot vertex.</p>
<p>5) Plot y intercept.</p> <p>6) Plot symmetrical point.</p> <p>7) Check- should your graph open up or down?</p>	<p style="text-align: center;">Graph</p> 

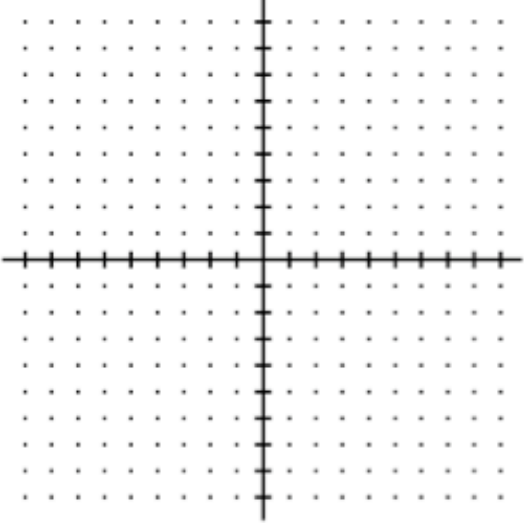
LINKS 2: Graphing a Parabola by **Factoring**

<p>1) Factor the equation. $y = x^2 - 6x - 7$</p> <p>2) Solve for the roots. Plot the roots</p>	<p>3) Find the axis of symmetry. $x = \underline{\hspace{2cm}}$</p> <p>4) Find vertex. Plot vertex.</p>
<p>5) Plot y intercept.</p> <p>6) Plot symmetrical point.</p> <p>7) Check- should your graph open up or down?</p>	<p style="text-align: center;">Graph</p> 

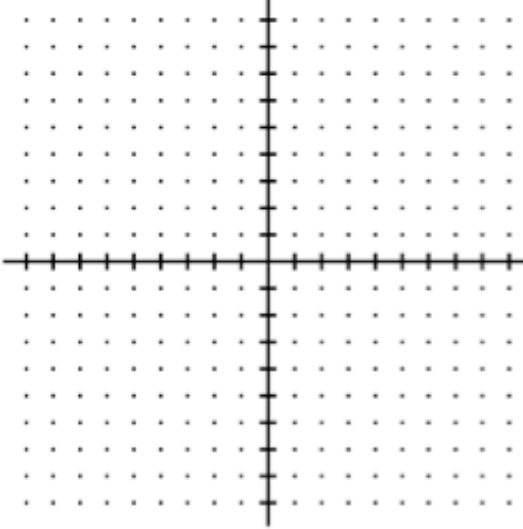
LINKS 3: Graphing a Parabola by **Factoring**

<p>1) Factor the equation. $y = x^2 - 10x + 16$</p> <p>2) Solve for the roots. Plot the roots</p>	<p>3) Find the axis of symmetry. $x = \underline{\hspace{2cm}}$</p> <p>4) Find vertex. Plot vertex.</p>
<p>5) Plot y intercept.</p> <p>6) Plot symmetrical point.</p> <p>7) Check- should your graph open up or down?</p>	<p style="text-align: center;">Graph</p> 

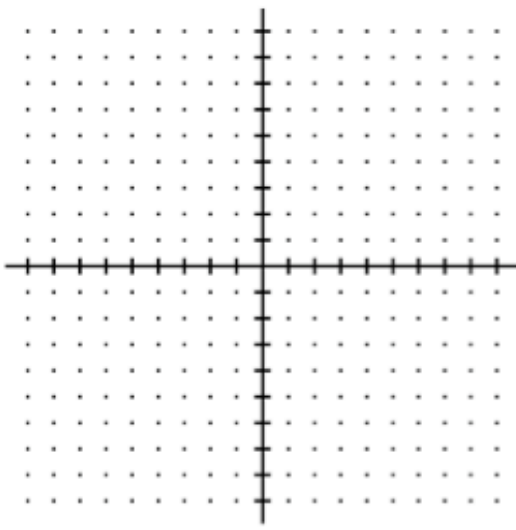
LINKS 4: Graphing a Parabola by **Factoring**

<p>1) Factor the equation. $y = x^2 - 4x + 3$</p> <p>2) Solve for the roots. Plot the roots</p>	<p>3) Find the axis of symmetry. $x = \underline{\hspace{2cm}}$</p> <p>4) Find vertex. Plot vertex.</p>
<p>5) Plot y intercept.</p> <p>6) Plot symmetrical point.</p> <p>7) Check- should your graph open up or down?</p>	<p style="text-align: center;">Graph</p> 

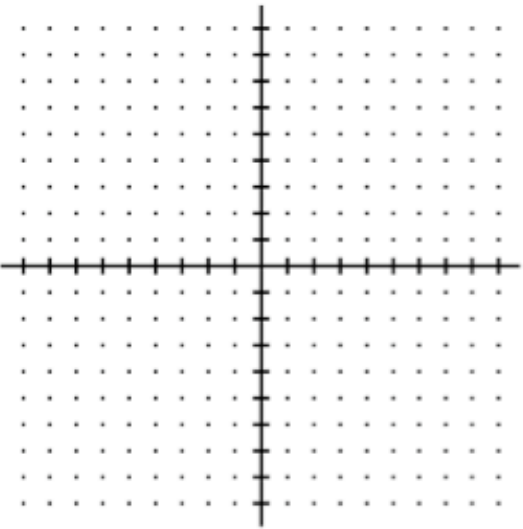
LINKS 5: Graphing a Parabola by **Factoring**

<p>1) Factor the equation. $y = x^2 + 14x + 45$</p> <p>2) Solve for the roots. Plot the roots</p>	<p>3) Find the axis of symmetry. $x = \underline{\hspace{2cm}}$</p> <p>4) Find vertex. Plot vertex.</p>
<p>5) Plot y intercept.</p> <p>6) Plot symmetrical point.</p> <p>7) Check- should your graph open up or down?</p>	<p style="text-align: center;">Graph</p> 

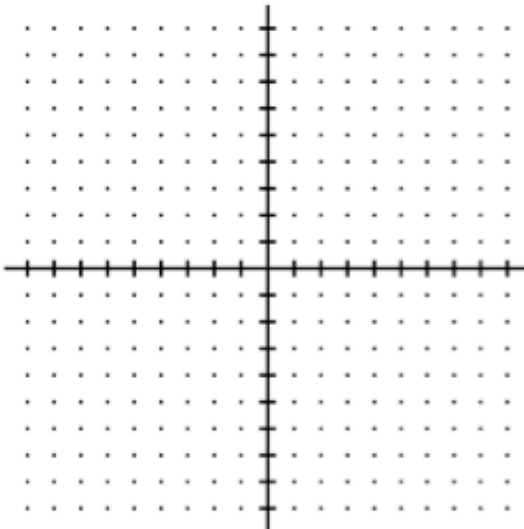
LINKS 6: Graphing a Parabola by **Factoring**

<p>1) Factor the equation. $y = x^2 + 4x - 5$</p> <p>2) Solve for the roots. Plot the roots</p>	<p>3) Find the axis of symmetry. $x = \underline{\hspace{2cm}}$</p> <p>4) Find vertex. Plot vertex.</p>
<p>5) Plot y intercept.</p> <p>6) Plot symmetrical point.</p> <p>7) Check- should your graph open up or down?</p>	<p style="text-align: center;">Graph</p> 

LINKS 7: Graphing a Parabola by **Factoring**

<p>1) Factor the equation. $y = x^2 + 4x$</p> <p>2) Solve for the roots. Plot the roots</p>	<p>3) Find the axis of symmetry. $x = \underline{\hspace{2cm}}$</p> <p>4) Find vertex. Plot vertex.</p>
<p>5) Plot y intercept.</p> <p>6) Plot symmetrical point.</p> <p>7) Check- should your graph open up or down?</p>	<p style="text-align: center;">Graph</p> 

LINKS 8: Graphing a Parabola by **Factoring**

<p>1) Factor the equation. $y = 2x^2 - 6x$</p> <p>2) Solve for the roots. Plot the roots</p>	<p>3) Find the axis of symmetry. $x = \underline{\hspace{2cm}}$</p> <p>4) Find vertex. Plot vertex.</p>
<p>5) Plot y intercept.</p> <p>6) Plot symmetrical point.</p> <p>7) Check- should your graph open up or down?</p>	<p style="text-align: center;">Graph</p> 

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Name _____

Exit Ticket

Block _____

<p>1) The roots of the following equation are graphed for you.</p> $y = (x - 2)(x - 8)$ <p>2) Graph the axis of symmetry.</p> <p>3) Solve for the vertex. Plot the vertex.</p> <p>4) Does the parabola open Up or Down? (Circle one)</p> <p>5) Sketch the parabola.</p>	
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Name _____

Exit Ticket

Block _____

<p>1) The roots of the following equation are graphed for you.</p> $y = (x + 3)(x + 7)$ <p>2) Graph the axis of symmetry.</p> <p>3) Solve for the vertex. Plot the vertex.</p> <p>4) Does the parabola open Up or Down? (Circle one)</p> <p>5) Sketch the parabola.</p>	
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