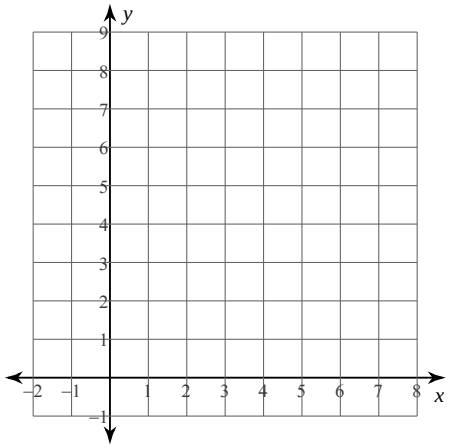
Candle Center - Infinite Algebra 2 Name_____

Quadratic Inequalities

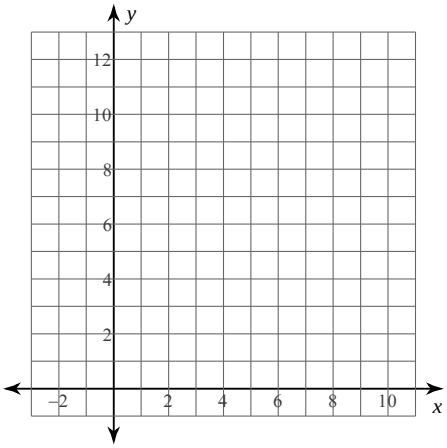
Date_____ Period____

Sketch the graph of each function.

1) $y2 \geq x^2$



2) $y > 3x^2$



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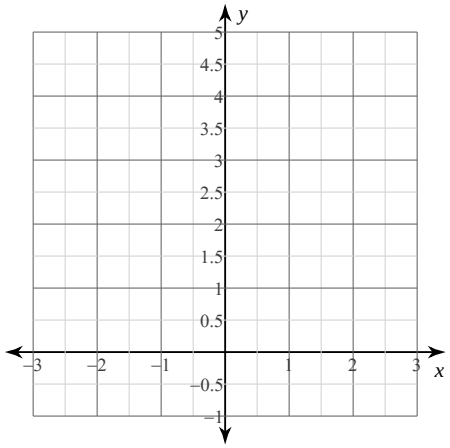
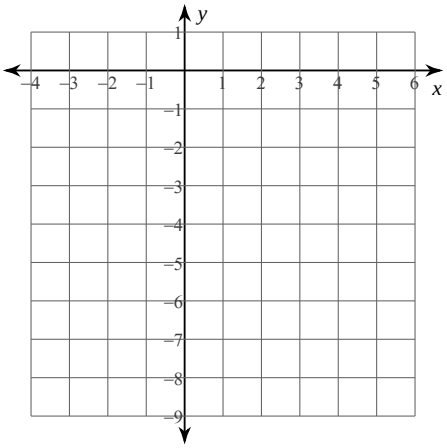
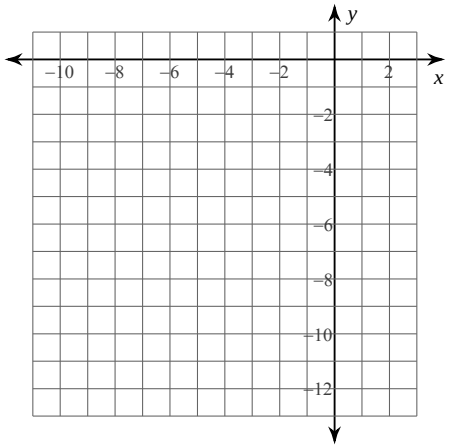


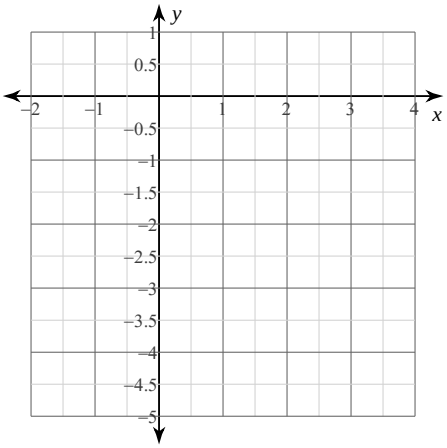
4) $y < -2x^2$



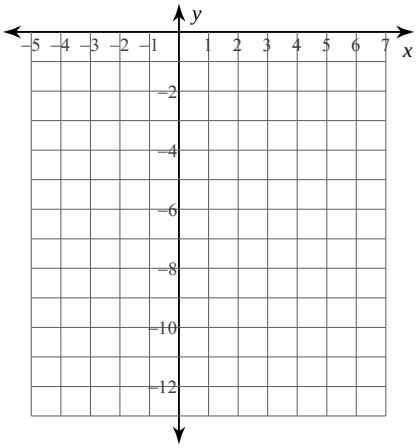
5) $y \geq -3x^2$



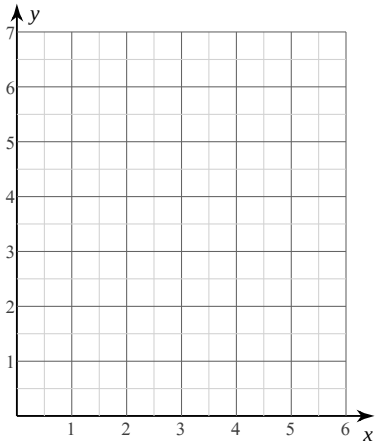
6) $y \leq -x^2$



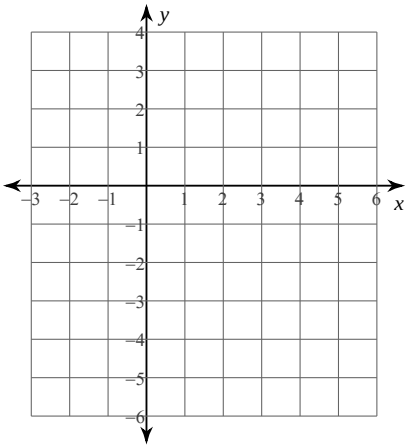
7) $y < -2x^2 - 8x - 12$



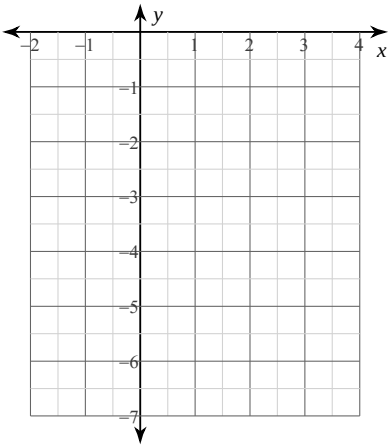
8) $y \le x^2 - 6x + 11$



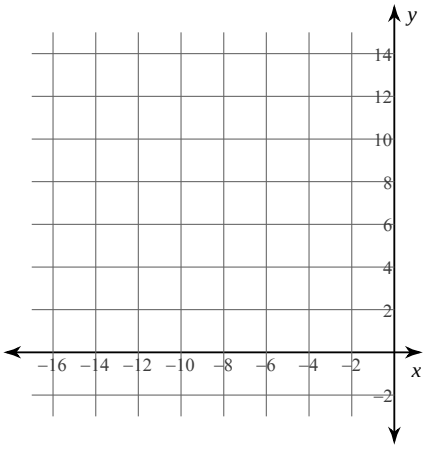
9) $y \ge -2x^2 + 16x - 29$



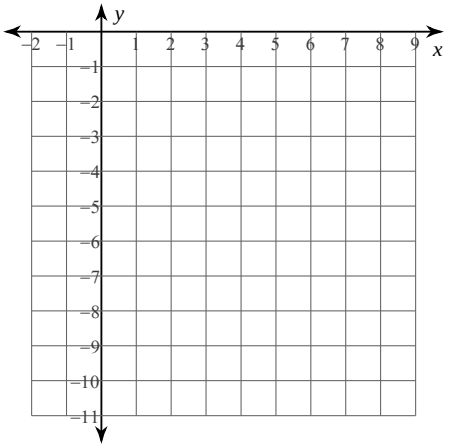
10) $y > -x^2 + 4x - 6$



11) $y \le 4x^2 + 32x + 62$



12) $y > -2x^2 + 16x - 34$



Critical thinking questions:

13) Name one solution to:
$y > x^2 + 6x + 5$

14) Name one solution to the system:
$y \ge x^2 - 2x + 2$
$y = x + 1$

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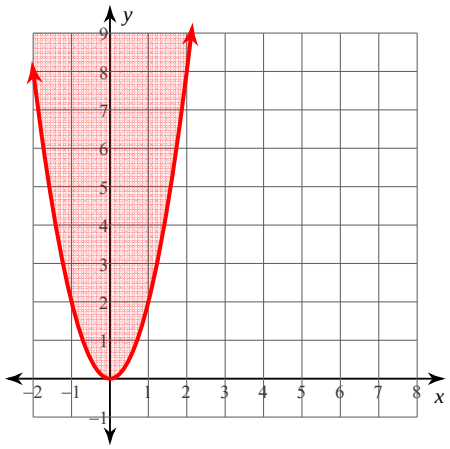

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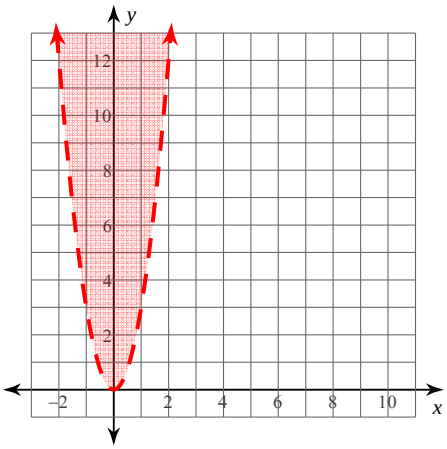

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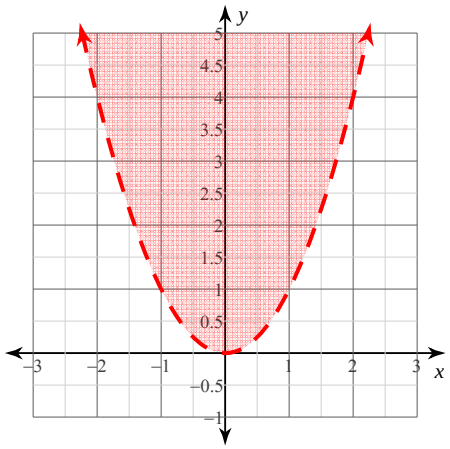

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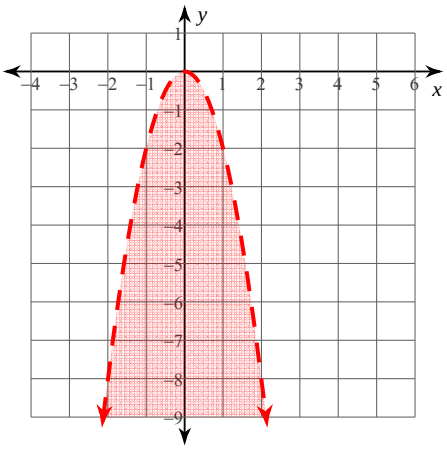

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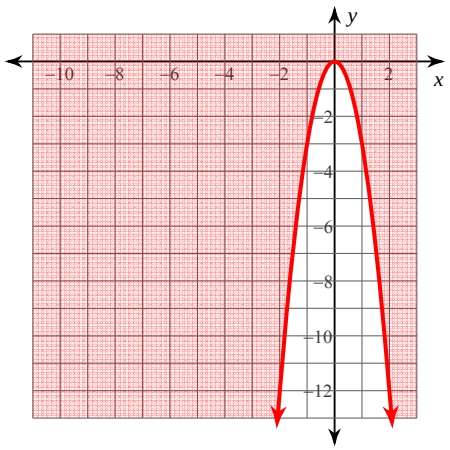

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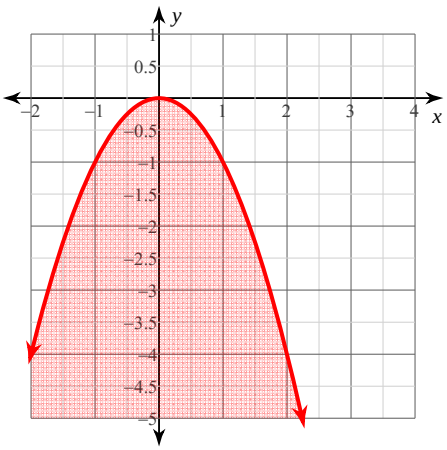

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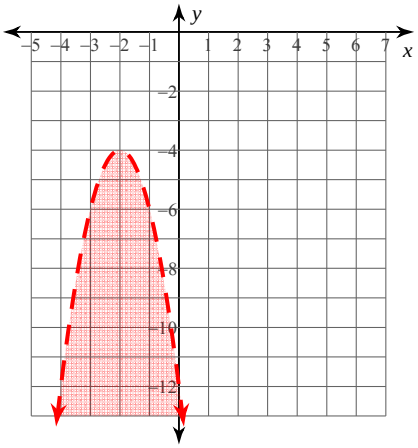

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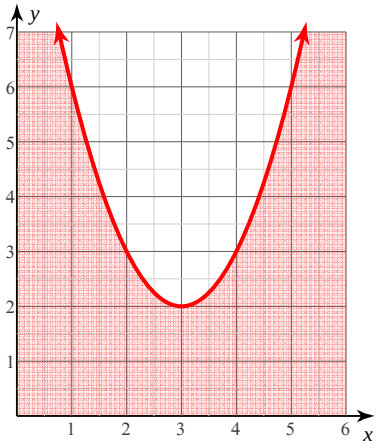

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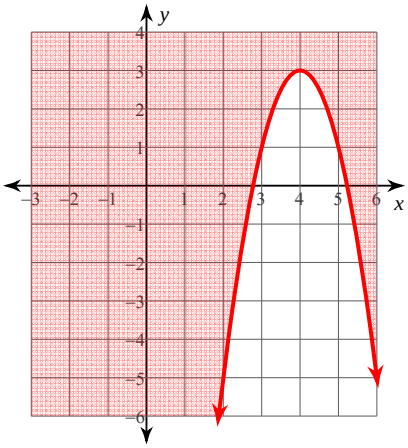

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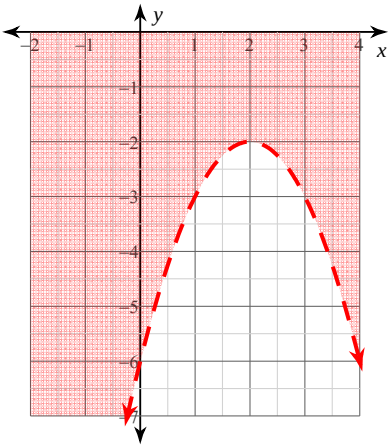

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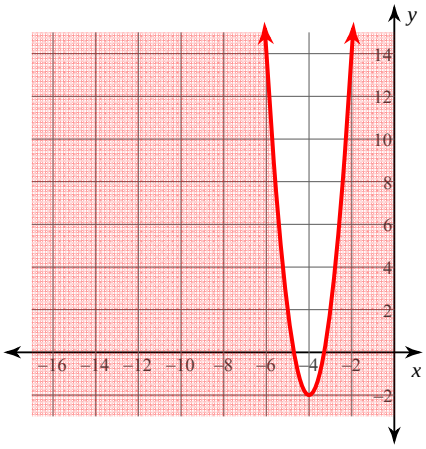

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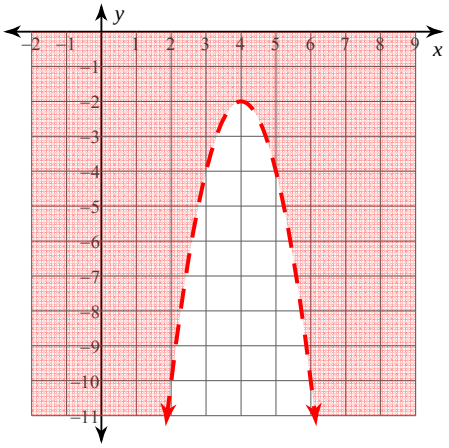

Critical thinking questions:

13) Name one solution to:
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Many answers. Ex: $(-3, 0)$

14) Name one solution to the system:
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$y = x + 1$

Many answers. Ex: $(1, 2)$, or $(2, 3)$