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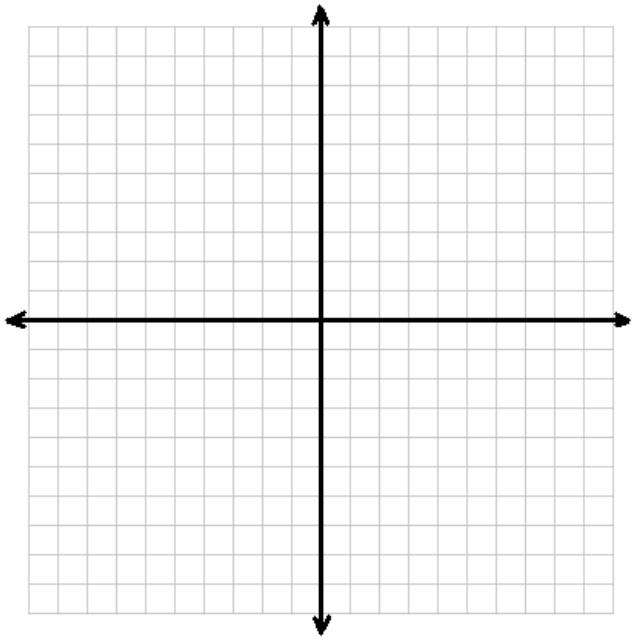
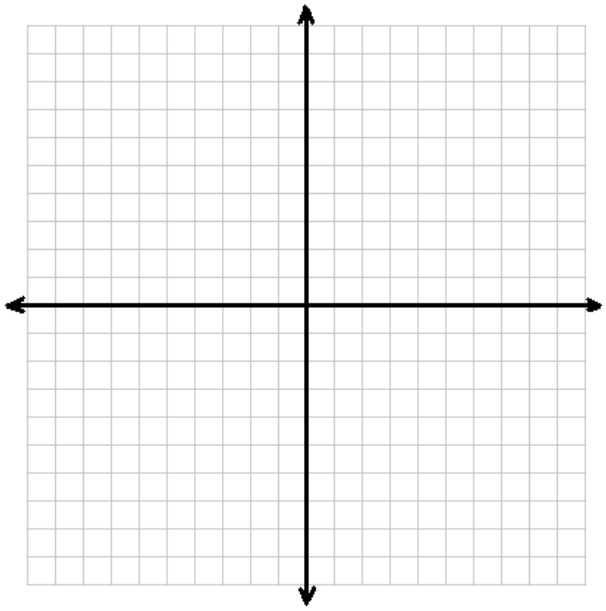
Alg1 Q4 Quiz 7 Review Graphing Quadratics

1) a) Graph: $y = x^2 + 3x - 5$
   b) Is the vertex a minimum or maximum?
   c) Find the axis of symmetry.
   d) Find the vertex.
   e) Find the roots.

2) a) Graph: $y = -2x^2 - 6x$
   b) Is the vertex a min. or max.?
   c) Find the axis of symmetry.
   d) Find the vertex.
   e) Find the roots.





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Alg1 Q4 Quiz 7 Review Graphing Quadratics

Factoring with x^4

Factor Each Completely:

3) $x^2 - 2x - 48$

4) $x^4 - 2x^3 - 48x^2$

5) $x^4 - 2x^2 - 48$

6) $x^2 + 13x - 68$

7) $x^4 + 13x^2 - 68$

8) $x^2 + 15x + 56$

9) $x^4 + 15x^2 + 56$

10) $x^2 - 121$

11) $x^4 - 121$

12) $5x^2 + x - 6$

13) $5x^4 + x^2 - 6$

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Extra Practice:

1) $x^4 + 13x^2 + 22$

2) $x^4 - 5x^2 - 66$

3) $x^4 + x^2 - 156$

4) $x^4 - 25x^2 + 24$

5) $x^4 - 12x^2 + 27$

6) $x^4 - 25$

7) $9x^4 - 16$

8) $121x^4 - 4$

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9) $5x^4 + 29x^2 + 20$

10) $3x^4 – 7x^2 – 6$

11) $8x^4 + x^2 – 7$

12) $3x^4 – 22x^2 + 24$

13) $10x^4 – 13x^2 + 4$

14) $12x^4 – 7x^2 - 5$