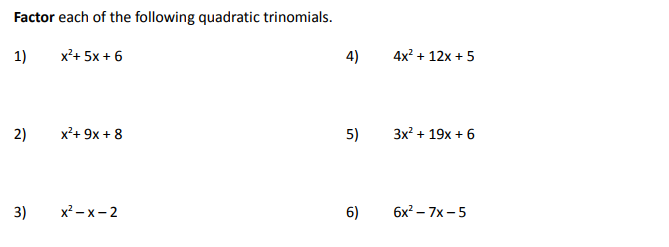
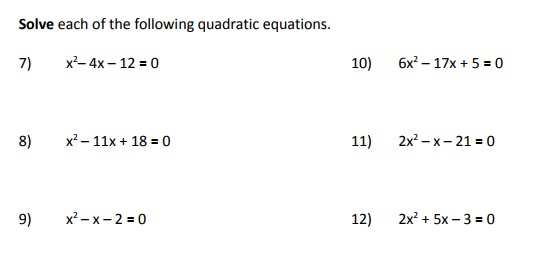
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| **Day 1: Solving by factoring** |



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| **Day 2: Solve by quadratic formula** |

**Write the quadratic formula here: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Identify and in the following quadratic equations. Then, use the quadratic formula to solve the quadratics.**

**(*Hint: Be sure each equation is written in standard form!)***

1. 2.

3. 4.

**Find the solutions to each equation using the quadratic formula. Show your work!**

5. 6.

7. 8.

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| **Day 3: Solving by Square Root Method** |

**Part 1: Simplify the radicals**

1. 2. 3.

4. 5.. 6.

**Part 2: Solving by the Square Root Method**

**Start by isolating the squared term. Then, solve for x by taking the square root of both sides. Leave all answers in simplified radical form.**

4. 5. 6.

7. 8. 10.

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| **Day 4: Solving Quadratics - all algebraic methods** |

**Solve the following quadratic equations using any appropriate method (factoring, quadratic formula, square root).**

1. 2.

3. 4.

5. 6.

7. 8.

9. 10.

|  |
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| **Day 5: Imaginary Numbers and Quadratics** |

**Simplify the following radicals.**

1. 2. 3.

4. 5. 7.

**Solve the following quadratics using the square root method. Express all answers in simplest radical form.**

1. 2. 3.

4. 5. 6.

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| **Day 6: Solving Quadratics with Imaginary Solutions** |

**Solve each of the following quadratic equations. Express your solutions in simplest a + bi form. Check.**

1. 2.

3. 4.

5. 6.

**Solve the following quadratics.**

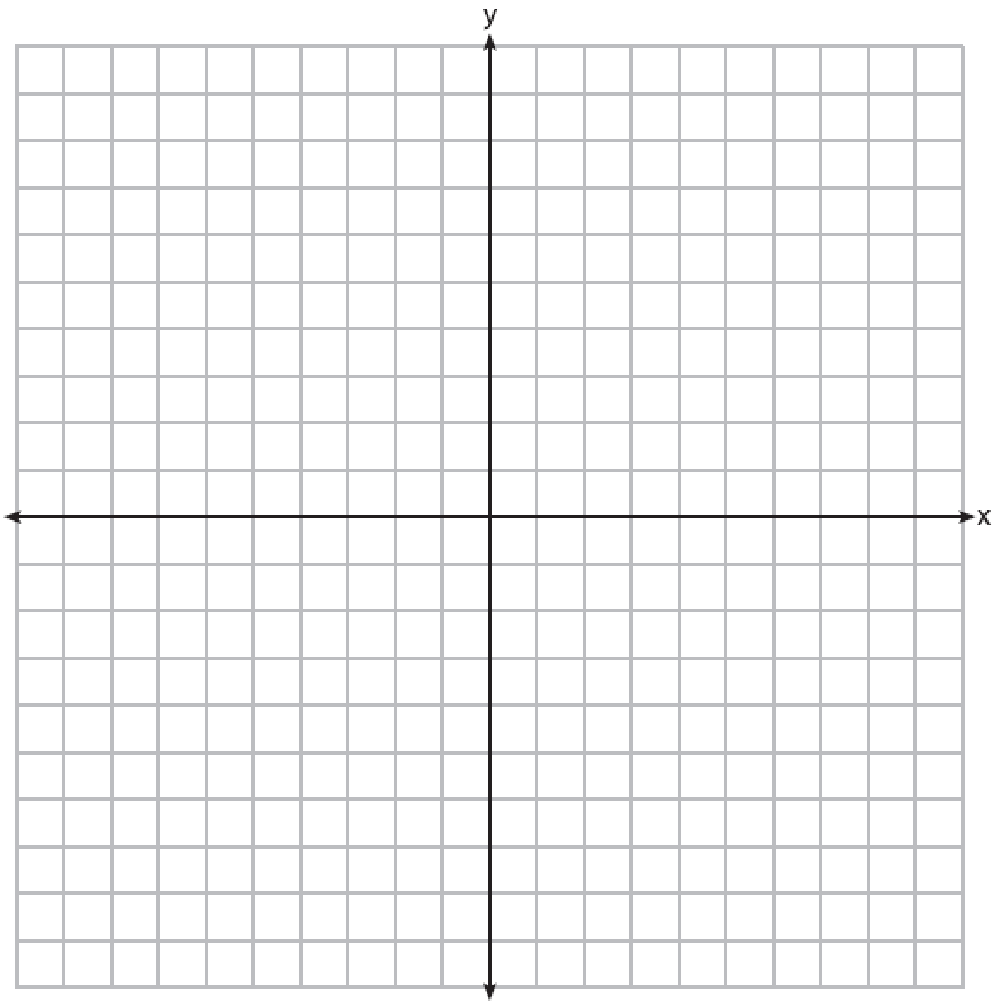
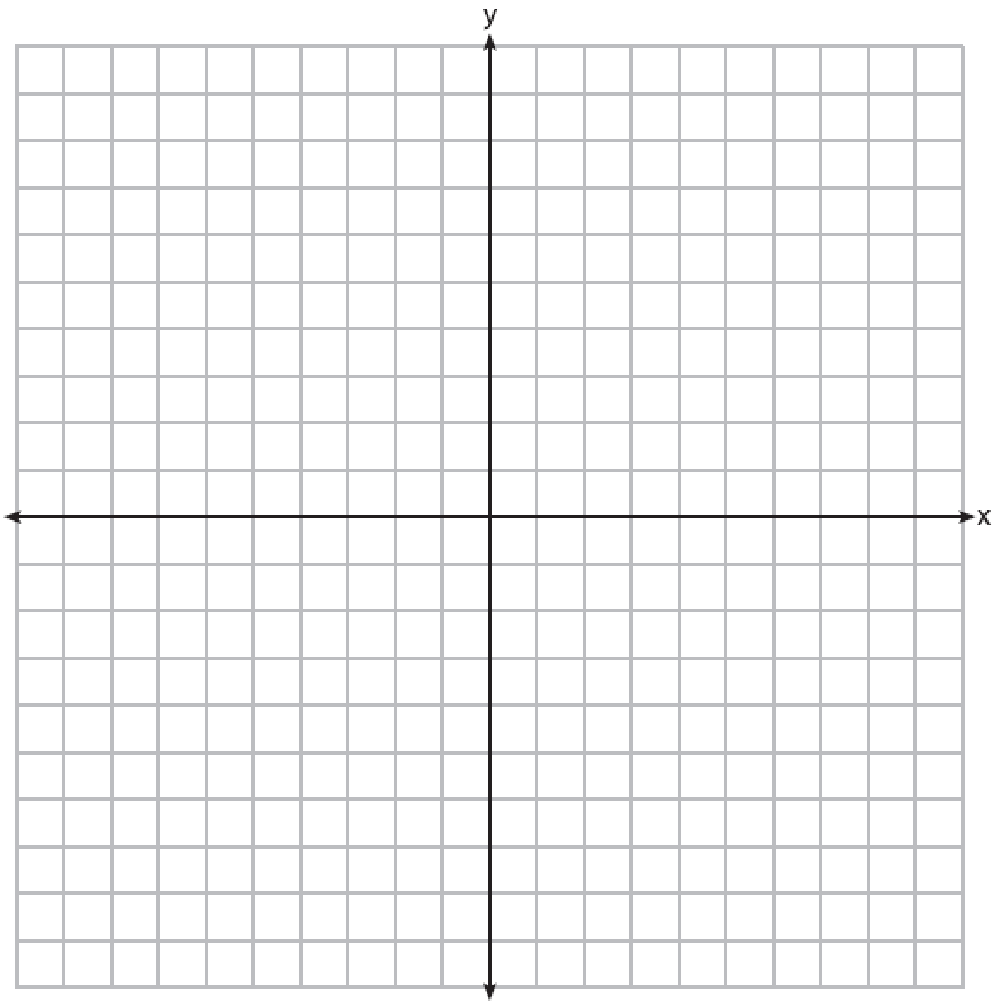
1. 2.

3. 4. 2

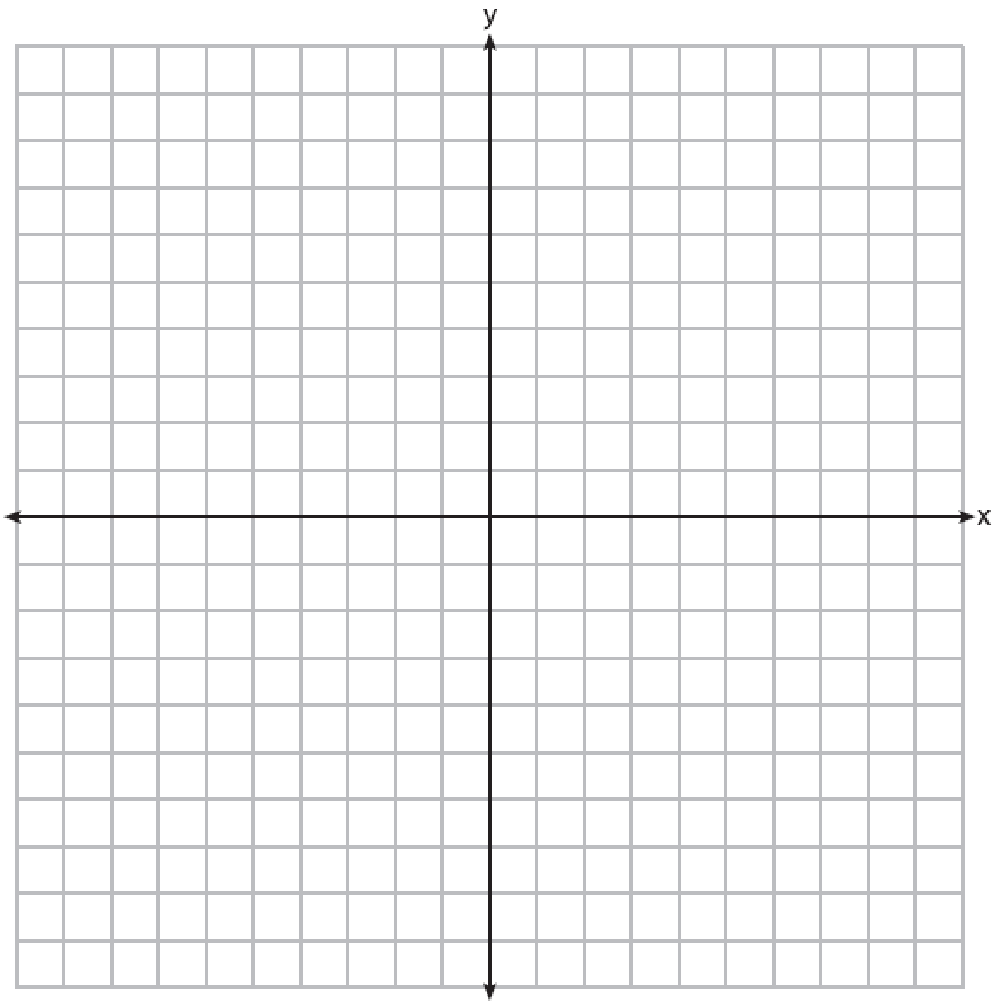
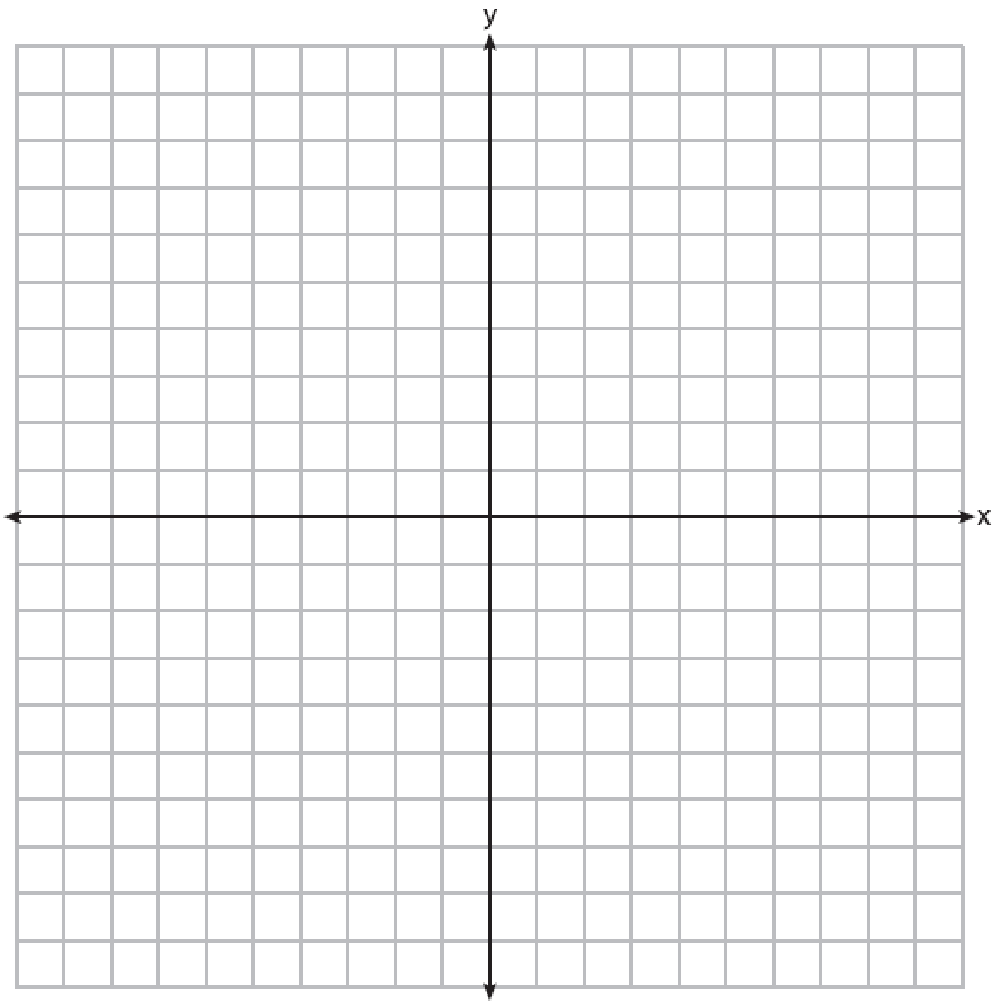
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| **Day 7: Quadratic/ Linear Systems** |

Solve each of the following equations, sketch graphs showing both the linear and quadratic function involved, and label solution points with their coordinates.

1. 2.



3. 4.



|  |  |  |
| --- | --- | --- |
| 5. Which graph could be used to find the solution to the following system of equations? | | |
|  | (1) (2) (3) (4) | | |

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| **Day 8: Quadratic Inequalities** |

Directions: Sketch each inequality on the left. Then, examine the graph to determine the solution. Match the inequality to its solution on the right.

