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NOTES: Section 9.1-9.6 REVIEW

Goals: #1 - I can evaluate and approximate square roots.

#2 - I can solve a quadratic equation by finding square roots.

#3 - I can simplify radical expressions.



#4 - I can graph a quadratic function.

#5 - I can use a graph to find or check a solution of a quadratic equation.

#6 - I can use the quadratic formula to solve a quadratic equation.

Section 9.1: Square Roots

Evaluate the following expression.

1. $-\sqrt{49}$

2. $\pm\sqrt{81}$

3. $\sqrt{100}$

Section 9.2: Solving Quadratic Equations by Finding Square Roots

Solve the following equations. Write your answer in simplest radical form.

1. $x^2 = 25$

2. $3x^2 = 108$

3. $-4x^2 - 5 = 59$

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Section 9.3: Simplifying Radicals

Simplify the following expressions.

1. $\sqrt{54}$

2. $\sqrt{75}$

3. $2\sqrt{32}$

4. $\sqrt{\frac{9}{64}}$

5. $\sqrt{\frac{2}{3}}$

6. $3\sqrt{\frac{15}{20}}$

Section 9.4: Graphing Quadratic Functions

Graph the function by completing the table. Identify the graph's axis of symmetry (AOS), vertex, and tell whether the graph opens up or down.

1. $y = x^2 - 4x - 3$

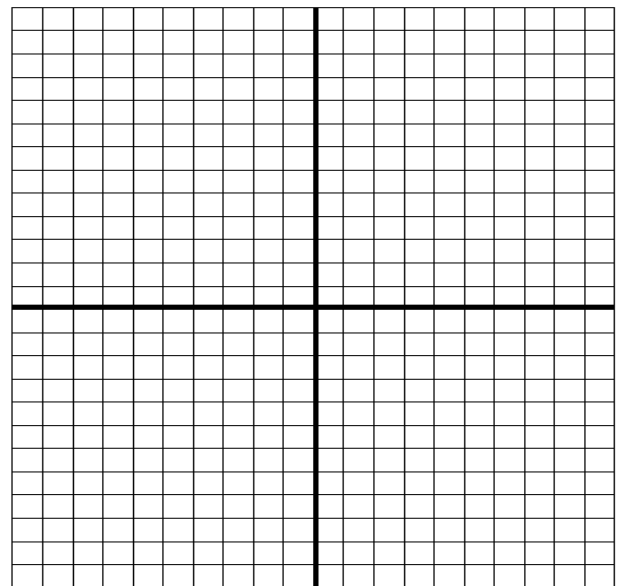
AOS: _____

vertex: _____

y-int: _____

opens: _____

x					
y					



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Section 9.5: Solving Quadratic Equations by Graphing

Solve the quadratic equations by graphing. Identify the graph's axis of symmetry (AOS), vertex, solutions, and tell whether the graph opens up or down.

1. $y = -x^2 + 4$

AOS: _____

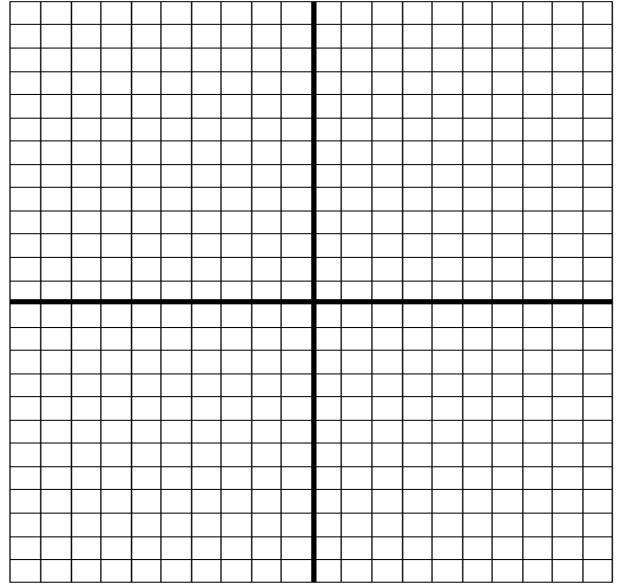
vertex: _____

y-int: _____

opens: _____

solution/s: _____

x					
y					



2. $y = x^2 - 2x - 3$

AOS: _____

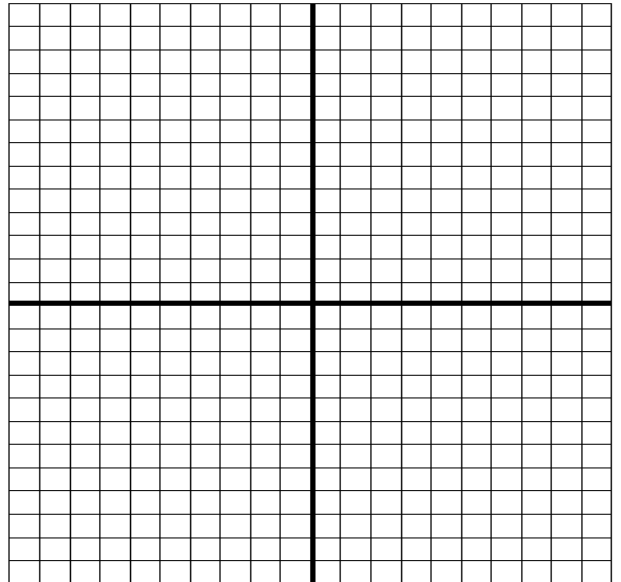
vertex: _____

y-int: _____

opens: _____

solution/s: _____

x					
y					



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Section 9.6: Solving Quadratic Equations by the Quadratic Formula

Solve the quadratic equations using the quadratic equation. Write your answer in simplest radical form.

1. $-x^2 + 3x - 2 = 0$

2. $x^2 - 2x = 8$