**Review:** Vertex & Factored form Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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2.

3. **Write a quadratic function in FACTORED FORM given the following**

a.   
\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

b.   
\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

c.   
\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

4. **Given:**

What is the A-value? \_\_\_\_\_\_\_\_\_ What does it tell you about the graph? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Where are the zeros? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ What is the A.O.S.? \_\_\_\_\_\_\_\_\_\_

Show how you would find the A.O.S. Algebraically using the zeros:

Where is the Vertex? \_\_\_\_\_\_\_\_ What is the y-intercept? \_\_\_\_\_\_\_\_\_\_\_\_\_

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6. **Given the following Quadratic function explain how you could find  
 the Zeros without using Desmos or a calculator:**

7. **Which Quadratic function has a zero at**

a. b. c.

8. **Which Quadratic function has an axis of symmetry ?**

a. b. c.

9. **Which Quadratic function equation gives the y- intercept?**

a. b.

10. **Which Quadratic function equation gives the vertex?**

a. b.

11. **Which Quadratic function equation gives information on whether the parabola opens up or  
 down?**

a. b.

12. **Which of the following has a y-intercept equal to 3**

a. b.

13. Write the equation of a Quadratic Function with a vertex at and opens upward  
  
 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_