**Notes:** Key Elements of Standard Form Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Quadratic Functions:** Sketch & Learn

**C ? Use a Calculator to sketch and describe**

**Without a Calculator sketch Check with a calculator 😊**

C? How does “C” transform the Parabola?

When C is greater than 0 (positive): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

When C is less than 0 (negative): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

C is the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**A ? Use a Calculator to sketch and describe**

**Without a Calculator sketch Check with a calculator 😊**

A? How does “A” transform the Parabola?

When A is greater than 1:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

When A is between 0 and 1:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

When A is negative:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Quadratic Functions:** Sketch & Learn

**B ? works with A** to create the **Axis of symmetry (AOS) “ vertical (x=) line parabola reflects over”**

Axis of Symmetry

**Use a Calculator to Sketch Find the A.O.S. What does the AOS go through?**

**Substitute the A.O.S. in for x and find the y value? What do you notice? What is the Vertex?**

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**Substitute the A.O.S. in for x and find the y value? What do you notice? What is the Vertex?**