NC Math 1B Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Unit 4 Lesson 2 Homework: Solving Quadratic Equations using the Calculator**

**I. Complete the following:**

1. Where on the graphing calculator do you go to accurately find the solutions to a quadratic equation?

 \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_

**For each parabola label the left bound and right bound locations for each indicated x – intercept.**

2. 3.

\_\_\_\_\_\_\_\_\_\_ bound

x - int

\_\_\_\_\_\_\_\_\_\_ bound

\_\_\_\_\_\_\_\_\_\_ bound

x - int

4. 5.

\_\_\_\_\_\_\_\_\_\_ bound

\_\_\_\_\_\_\_\_\_\_ bound

x - int

\_\_\_\_\_\_\_\_\_\_ bound

x - int

**II. State the key features listed for the quadratic equation graphed below.**



Vertex: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Axis of Symmetry: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Y- Intercept: \_\_\_\_\_\_\_\_\_\_\_\_\_

Zeros: \_\_\_\_\_\_\_\_\_\_\_\_\_

X-Intercepts: \_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_

Maximum or Minimum (Circle)

Domain: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Range: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Increasing: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Decreasing: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 6.