NC Math 1B Unit 4 Part 2 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Homework Lesson 2.5: More Graphing Quadratics on the Calculator**

*****Use the given graphs to answer the following questions. Each question has at least one answer. Some questions have more than one graph that fit the description****.*

Graph A

Graph E

Graph D

Graph C

Graph A

Graph B

**Which graphs have (a/an):**

1. Axis of symmetry that is *x =* –*1*

2. Range of *y* ≥ *1*

3. Maximum

4. Two solutions

5. Increase when  *x <*–*2*

**Mark the following places on** Graph A**:**

6. Place a point ( ) for each x-intercept.

7. Put an “ **X** ” for left bounds (there should be 2)

8. Put a “ ” for the right bounds (there should be 2)

9. Draw and state the axis of symmetry

10. State the range

***Describe what could be done on the graphing calculator to see the entire parabola graphed. What is missing? What would you press on the calculator to view what is missing?***

11) 12)





***Given the vertex and x-intercepts or solutions for each equation, sketch and label the parabola and list the following key features:***

13) y = x2 – x – 6 14) y = –3x2 – 5x + 10

**Vertex: (0.5, –6.25) Vertex: (–0.83, 12.08)**

**Solutions: {–2, 3} x – intercepts: (–2.84, 0) and (1.17, 0)**

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

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

Maximum or Minimum (Circle)

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

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

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

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

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

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

Maximum or Minimum (Circle)

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

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

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

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