

Name _____

[06-02-22-T9]
Quadratic Function proofs

[1] $f(x) = x^2 - 6x + 2$

A. Answer the questions below. Sketch the graph on the right side of paper.

0. Completed square form:

1. Zeros:

2. Maximum/minimum:

3. Increasing:

4. Decreasing:

5. Line of symmetry:

B. Prove your answers to items #2, 3, 4, 5 above (do it neatly on separate sheets, then attach)

[2] $f(x) = -x^2 - 4x + 3$

A .Answer the questions below.Sketchg the graph on the right side of paper.

0. Completed square form:

1. Zeros:

2. Maximum/minimum:

3. Increasing:

4. Decreasing:

5. Line of symmetry:

B. Prove your answers to items #2, 3, 4, 5 above (do it neatly on separate sheets, then attach)