Math-1003b Homework #14

<u>Reading</u>

- Sections 11.1, 11.2, 11.4, 11.5

<u>Problems</u>

Consider the following general form of a parabola:

$$y = 2x^2 - 3x - 3$$

1). What are its y-intercepts (if any)?

2). What are its x-intercepts (if any)? You may either complete the square or use the quadratic formula.

3). Convert the general form to standard form. You must complete the square; any other method receives no credit.

4). Where is the vertex?

5). Sketch the parabola. The vertex and all intercepts must be labeled for full credit.