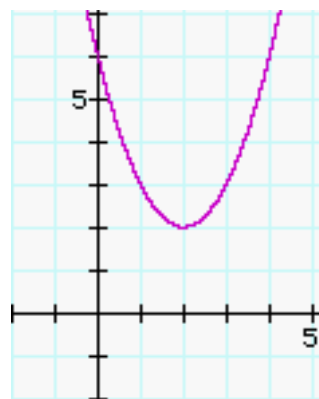


**A.14 The student will solve quadratic equations in one variable both algebraically and graphically. Graphing calculators will be used as a primary tool in solving problems and to verify algebraic solutions.**

1. What are the solutions to the equation  $2x^2 + x - 1 = 0$ ?

- a.  $x = 1$  or  $x = -1$                       b.  $x = -\frac{1}{2}$  or  $x = 1$                       c.  $x = -\frac{1}{2}$  or  $x = -1$   
 d.  $x = \frac{1}{2}$  or  $x = 1$                       e.  $x = \frac{1}{2}$  or  $x = -1$

2. Using the graph of  $y = x^2 - 4x + 6$  shown, what is the solution set of the quadratic equation  $x^2 - 4x + 6 = 3$ ?



- a. {1}                      b. {2}                      c. {3}                      d. {1, 3}
3. To the nearest hundredth, what are the solutions of the quadratic equation  $2t^2 - t = 4$ ?
- f. -0.78 and 1.28                      g. -1.14 and 1.64  
 h. -1.19 and 1.69                      j. -4.74 and 1.69
4. What option do you choose from the G-solve menu in the Graph menu in order to have the calculator give you the actual answer to a quadratic equation?
- a. Root                      b. Max                      c. Y-Intpt                      d. Isct
5. Quadratic equations must be in what form when you type them into the calculator?
- f. standard form                      g. slope-intercept form  
 h. solved for x                      j. point-slope form