I. Quadratic Function (p.611):

1. $f(x) = ax^2 + bx + c$ General Form / p.617

2. Graph is a "parabola" opening...



II. Examples (pp.625-626): Exercises #2-16(even)

III. Graphing a Quadratic Function:

1. Find and plot the Vertex (h,k)

h = -b/(2a), k = f(h)

- 2. Identify direction of opening via the coefficient "a"
- 3. Determine the *x* and *y*-intercepts by solving f(x) = 0 & finding f(0) respectively
- 4. Plot enough (*x*,*y*)-coordinate pairs to recognize the shape of the "parabola" (opens up when a > 0, opens down when a < 0)...
- IV. Examples (pp.626): Exercises #26,38
- HW: pp.625-628 / Exercises #1-15(odd),17,21,25, 29,37

Read pp.638-643 (section 8.5 / polynomials only)