Worksheet #4 - Graphing Quadratic Functions

Without using a calculator, sketch graphs for each of the following equations. Make sure your graphs accurately indicate all intercepts and vertices.

1. Graph $y = x^2 - 2x - 3$.

2. Graph $y = 2x^2 + x - 1$. 
3. Graph $y = 8 - 2x^2$.

4. Graph $y = x(x + 1) + (2x - 1)(x + 2)$. 