Find the vertex and y-intercept and sketch a graph

$$y = x^2 - 3x + 4$$

$$y = -3x^2 + 6x + 7$$

Write the equation of a parabola, in standard form, that passes through the points (-1, 5), (4, 0), and (5, -7).

Write the equation of a parabola, in standard form, that passes through the points (2, -12), (-1, -15), and (-4, -90).	