Translating x²: Understanding the Vertex Form of the Quadratic Equation

Set 5-2b

Graph the following functions and state the vertex.

1) $y = -(x+1)^2$

2) $y = x^2 - 2$

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

4) $y = -2(x+1)^2 + 1$

5) $y = (x-4)^2 - 2$