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## Completing the Square - Applications (3 of 3) | Sketching Quadratic Graphs (Part 2)

$y = 2 - 6x - x^2$        $y = 1 + 4x - 2x^2$

$\therefore y = 11 - (x+3)^2$       let  $f(x) = -x^2$        $\therefore y = 3 - 2(x-1)^2$

$f(x+3)+11 = 11 - (x+3)^2$        $2f(x-1)+3 = 3 - 2(x-1)^2$

The image shows two hand-drawn quadratic graphs on a coordinate plane. The left graph is a downward-opening parabola with its vertex at (-3, 11). The x-axis is labeled with -3, and the y-axis is labeled with 2. The right graph is a downward-opening parabola with its vertex at (1, 3). The x-axis is labeled with 1, and the y-axis is labeled with 1.

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