Compute the difference quotient (also known as \( NQ \)) for \( f(x) = 1 - 3x^2 \).
Simplify.

Let \( f(x) = 1 - 3x^2 \) and \( g(x) = 7 - 4x \). Compute and simplify the following to \( ax^2 + bx + c \) form:

(a) \( (f \circ g)(x) \)

(b) \( (g \circ f)(x) \)

Please turn over!
3. Ungraph this parabola:

That is, find a quadratic function $f$ whose graph is the one given above. Use your equation to find the exact coordinates of the graph’s $y$-intercept.