Draw a contour map of the function

\[ f(x, y) = (y - 2x)^2 \]

showing several level curves of the function.

Solution: The level curves of \( f \) are all lines in the \( xy \) plane with slope 2. Any two such lines, \( y = 2x + K \) and \( y = 2x - K \), correspond to the same value of \( z \). For example, the lines \( y = 2x + 5 \) and \( y = 2x - 5 \) both correspond to \( z = 25 \).