Class Drill 20: Sketching a Graph of a Function from Information about its Derivatives

Given the following information:

\[ f(-2) = -2 \]
\[ f(0) = 1 \]
\[ f(2) = 4 \]
\[ f'(2) = 0 \]
\[ f''(0) = 0 \]
\[ f'(x) > 0 \text{ on } (-2, 2) \]
\[ f'(x) < 0 \text{ on } (-\infty, -2) \text{ and } (2, \infty) \]
\[ f''(x) > 0 \text{ on } (-\infty, 0) \]
\[ f''(x) < 0 \text{ on } (0, \infty) \]

Sketch a possible graph of \( f \).