





$$f(x) = \begin{cases} x^2 - y & \text{if } x \leq -2 & \text{if } x > 2 \\ y - x^2 & \text{if } -2 < x < 2 \end{cases}$$

$$f'(x) = \begin{cases} -2x & \text{if } -2 < x < 2 \end{cases}$$

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