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F	I	R	S	T		N	A	M	E	S		

**MATH 2301 GW18: Using Given Information to Sketch a Graph**

Given the following information:

$$f(-2) = -2$$

$$f(0) = 1$$

$$f(2) = 4$$

$$f'(-2) = 0$$

$$f'(2) = 0$$

$$f'(x) > 0 \text{ on } (-2, 2)$$

$$f'(x) < 0 \text{ on } (-\infty, -2) \text{ and } (2, \infty)$$

$$f''(0) = 0$$

$$f''(x) > 0 \text{ on } (-\infty, 0)$$

$$f''(x) < 0 \text{ on } (0, \infty)$$

Sketch a possible graph of  $f$ .