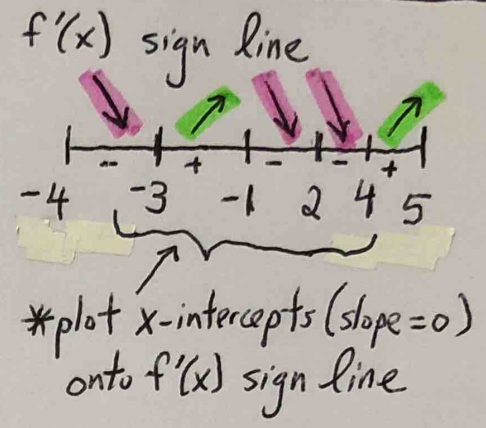
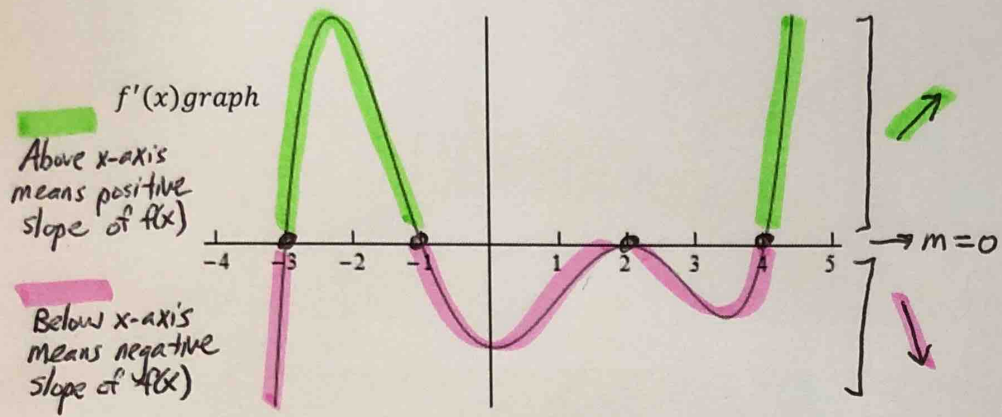
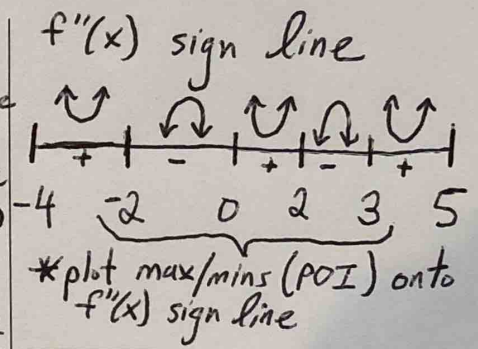
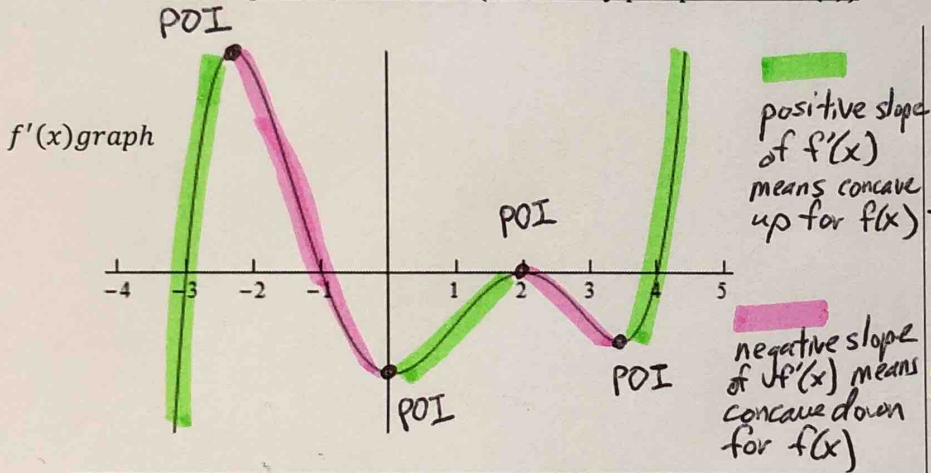


Key

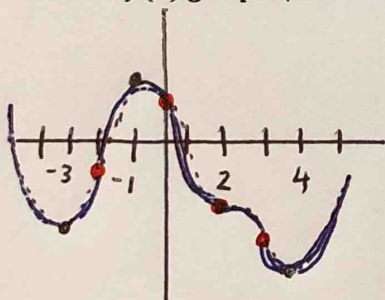
Derivative Graph $f'(x)$ Overview (Slope perspective of $f(x)$)



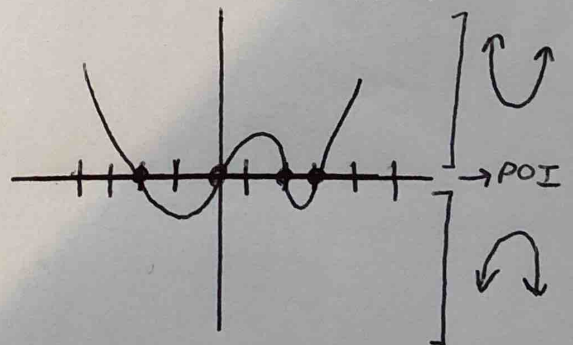
Derivative Graph $f'(x)$ Overview (Concavity perspective of $f(x)$)



Sketch $f(x)$ graph (based on slope/concavity information)



Sketch $f''(x)$ graph



Identify the following information about $f(x)$:

Relative minimum(s) (x-value) $x = -3, x = 4$ Relative maximum(s) (x-value) $x = -1$

Interval increasing: $(-3, -1) \cup (4, 5)$ Interval decreasing: $(-4, -3) \cup (-1, 2) \cup (2, 4)$

Point(s) of Inflection (x-value) $x = -2, 0, 2, 3$

Intervals concave up: $(-4, -2) \cup (0, 2) \cup (3, 5)$ Intervals concave down: $(-2, 0) \cup (2, 3)$