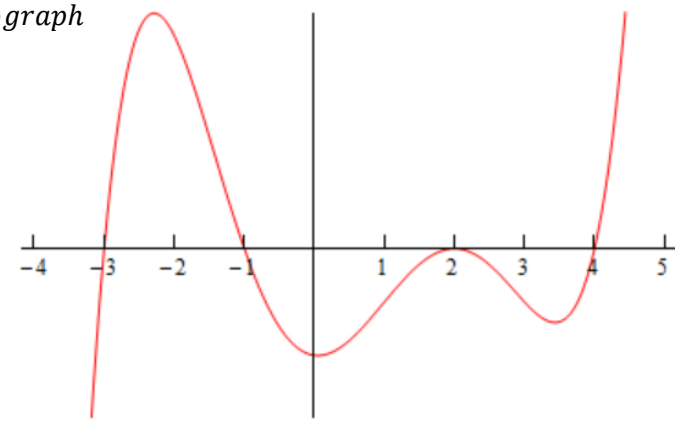
Derivative Graph f′(x) Overview (**Slope** perspective of f(x))

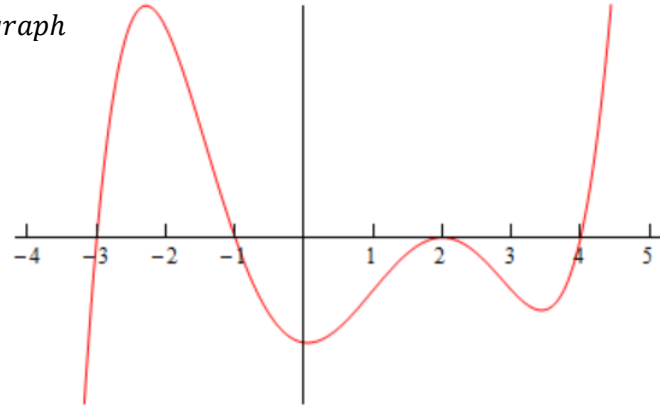
$f'(x) graph$



$f'(x)$ *sign line*

Derivative Graph f′(x) Overview (**Concavity** perspective of f(x))

$f'(x) graph$



$f''(x)$ *sign line*

Sketch $\boldsymbol{f(x)}$ ***graph*** (based on slope/concavity information)

Sketch $\boldsymbol{f''(x)}$ ***graph***

Identify the following information about $\boldsymbol{f(x)}$:

Relative minimum(s) (x-value) _____ Relative maximum(s) (x-value) _____

Interval increasing: _____ Interval decreasing: _____

Point(s) of Inflection (x-value) _____

Intervals concave up: _____ Intervals concave down: _____