

DATE: _____

x	-1	$-1 < x < 0$	0	$0 < x < 1$	1	$1 < x < 2$	2	$2 < x < 3$
$f(x)$	0	Positive	2	Positive	3	Negative	0	Negative
$f'(x)$	2	Positive	1	Positive	0	Negative	-1	Negative
$f''(x)$	1	Positive	0	Negative	-1	Negative	0	Positive

$f(x)$ is defined on $[-1,3)$ in the chart above. Use the information to answer the following:

Where is f increasing? Why?

Where is f decreasing? Why?

Where does f have a relative maximum? Why?

Where does f have a relative minimum? Why?

Where is f concave up? Why?

Where is f concave down? Why?

Where does f have an inflection point? Why?