To help you organize the theory in section 4.3, fill in the blank entries below that relate how certain properties of f' and/or f'' correspond to properties of f. Some entries have been filled in as examples.

Some entries should be blank.

f ''	<b>f</b> '	f
		is increasing on $(a, b)$
		is decreasing on ( <i>a</i> , <i>b</i> )
BLANK		has a critical number at c
		has a local maximum at <i>c</i>
f'(c) = 0 and f''(c) > 0	f'(c) = 0 or undefined and f' changes from negative to positive at $c$	has a local minimum at c
		is concave up on ( <i>a</i> , <i>b</i> )
		is concave down on $(a, b)$
		has an inflection point at <i>c</i>