LEAP FROG: TEACHER CARDS

If $f(x)$ is increasing, $f'(x)$ _____ (is positive)	If $f'(x)$ is positive, $f(x)$ _____ (is increasing)
If $f(x)$ is concave up, $f''(x)$ _____ (is positive)	If $f''(x)$ is positive, $f(x)$ _____ (is concave up)
If $f'(x)$ changes from $+$ to $-$ at its only zero, $f(x)$ _____ (has an absolute maximum)	If $f'(x)$ changes from $-$ to $+$ at its only zero, $f(x)$ _____ (has an absolute minimum)
If $f(x)$ has relative extrema, $f'(x)$ _____ (equals zero)	If $f''(x)$ changes signs, $f(x)$ _____ (has a point of inflection)
If $f''(x)$ changes signs, $f'(x)$ _____ (has relative extrema)	If $f'(x)$ is continuous, but not differentiable, $f'(x)$ _____ (has a vertical tangent)
If $f(x)$ has a relative maximum, $f''(x)$ _____ (is negative)	If $f(x)$ has a relative minimum, $f''(x)$ _____ (is positive)
If $f'(x)$ has a relative minimum, $f''(x)$ _____ (changes from $-$ to $+$)	If $f''(x)$ changes from $-$ to $+$, $f'(x)$ _____ (has a relative minimum)

If $f'(x)$ changes from $+$ to $-$, $f(x)$ _____ (has a relative maximum)	If $f(x)$ has a relative maximum, $f'(x)$ _____ (changes from $+$ to $-$)
If $f'(x)$ is decreasing, $f''(x)$ _____ (is negative)	If $f''(x)$ is negative, $f'(x)$ _____ (is decreasing)
If $f'(x)$ is negative, $f(x)$ _____ (is decreasing)	If $f(x)$ is decreasing, $f'(x)$ _____ (is negative)
If $f'(x)$ is increasing, $f''(x)$ _____ (is positive)	If $f''(x)$ is positive, $f'(x)$ _____ (is increasing)
If $f'(x)$ changes from $-$ to $+$, $f(x)$ _____ (has a relative minimum)	If $f(x)$ has a relative minimum, $f'(x)$ _____ (changes from $-$ to $+$)
If $f'(x)$ has a relative maximum, $f''(x)$ _____ (changes from $+$ to $-$)	If $f''(x)$ changes from $+$ to $-$, $f'(x)$ _____ (has a relative maximum)
If $f(x)$ is concave down, $f''(x)$ _____ (is negative)	If $f''(x)$ is negative, $f(x)$ _____ (is concave down)