

True or False

1. F If $f'(x)$ is positive, then $f(x)$ is decreasing.
2. T If $f'(x)$ changes from positive to negative, then there is a relative max.
3. F If $f''(x)$ is negative then $f(x)$ is concave up.
4. F Critical points are only where $f'(x) = 0$. also undefined
5. T If $f(x)$ has an asymptote at $x = a$, then $f'(a)$ is undefined.
6. T If $f''(x)$ is equal to zero, and $f'(x)$ is negative, then $f(x)$ is decreasing.
7. T If $f''(a) = 0$, then $f(a)$ is a possible point of inflection. P.P.I.
8. T If $f(x)$ is concave down, then $f'(x)$ is decreasing.

$f'(x)$ decreasing $f(x) = \cap$ CD
 $f'(x)$ increasing $f(x) = \cup$ CU

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