SATPREP

Interpretation of Curve and derivative curve

Feature	the function
y'> 0	is increasing
y' < 0	is decreasing
y' changes - to +	has a local minimum
y'changes + to -	has a local maximum
y^{\prime} increasing	is concave up
y' decreasing	is concave down
y' extreme value	has a point of inflection
Conclusion	Justification
y is increasing	<i>y</i> ′> 0
y is decreasing	y'< 0
y has a local minimum	y'changes - to +
y has a local minimum y has a local maximum	y'changes + to -
y is concave up	y'increasing
y is concave down	y^\prime decreasing
y has a point of inflection	y/extreme values

