

Sections 5.1 and 5.2 Review
Calculus

Name _____

1. $y = 2x^3 + 9x^2 - 24x - 10$

Interval(s) of increasing: _____

Interval(s) of decreasing: _____

Relative Maxima: _____

Relative Minima: _____

Interval(s) of Concave Up: _____

Interval(s) of Concave Down: _____

Inflection Point(s): _____

2. $y = x^3 + 2x^2 + 1$

Interval(s) of increasing: _____

Interval(s) of decreasing: _____

Relative Maxima: _____

Relative Minima: _____

Interval(s) of Concave Up: _____

Interval(s) of Concave Down: _____

Inflection Point(s): _____

3. $y = x^4 + 8x^2 + 1$

Interval(s) of increasing: _____

Interval(s) of decreasing: _____

Relative Maxima: _____

Relative Minima: _____

Interval(s) of Concave Up: _____

Interval(s) of Concave Down: _____

Inflection Point(s): _____

4. $y = x^3 - 3x^2 - 9x + 1$

Interval(s) of increasing: _____

Interval(s) of decreasing: _____

Relative Maxima: _____

Relative Minima: _____

Interval(s) of Concave Up: _____

Interval(s) of Concave Down: _____

Inflection Point(s): _____