

Name: _____

Grade: _____

Group Members Present:

_____, _____, & _____

For each of the following functions, write both first and second derivative formulas.

1. $f(x) = 12x^4 + 5x^2 - 7$

$f'(x) =$

$f''(x) =$

2. $g(x) = 5(3^x) - 2.1e^x$

$g'(x) =$

$g''(x) =$

3. $h(x) = x^{-1} + \ln x$

$h'(x) =$

rewrite

$h''(x) =$

4. $k(x) = \ln(5x^2)$

$k'(x) =$

rewrite

$k''(x) =$

5. $s(x) = -5xe^{0.2x}$

$s'(x) =$

rewrite

$s''(x) =$