

Name: _____

Chain Rule Practice

Find the derivative of each function. Write which rule you used (power rule, product rule, quotient rule and/or chain rule) for each problem.

1) $y = 3x^2 - 5x + 6$

2) $f(x) = (-x^3 + 2)(2x - 1)$

3) $h(x) = \frac{6x + 7}{x^2 + 1}$

4) $p(x) = 2(2x - 7)^3$

5) $f(x) = \sqrt[3]{6x^2 + 1}$

6) $r(x) = \sqrt{x^2 - 4x + 2}$

7) $h(t) = -\frac{3}{(t - 2)^4}$

8) $m(x) = x(2x - 5)^3$

9) $g(x) = \left(\frac{3x^2 - 2}{2x + 3} \right)^3$