

## Product Rule and Quotient Rule

Directions: Use the Product Rule or the Quotient Rule to find the derivative of the following functions.

1.  $f(x) = \frac{x^2-1}{x^3+4}$

2.  $f(x) = (x^2 - 3)(x^4 + 1)$

3.  $g(x) = \frac{x^3-2x^2+1}{x^2-x-1}$

4.  $h(x) = (x^2 - x - 4)(3x^5 + 7)$

5.  $f(x) = \frac{2}{3x^2-5}$

6.  $h(x) = \frac{x^4-3x^2+5x-1}{3x^3-2x^2+x}$