

## Aufgaben zu Ableitungen 2

### negative Potenzen

Bilde die 1. und die 2. Ableitung!

f(x)	f'(x)	f''(x)
$f(x) = \frac{1}{x}$		
$f(x) = \frac{2}{x^2}$		
$f(x) = -6 \cdot \frac{1}{x^2} + \frac{2}{x^4}$		
$f(x) = \frac{8}{x^5} - \frac{3}{x^3}$		
$f(x) = -6x - \frac{1}{x^2}$		
$f(x) = 7x^7 - \frac{2}{3x^2}$		
$f(x) = 5x^3 + \frac{5}{8x^0}$		
$f(x) = 2x^{-7} + 5x^{-2} - 7x^{-1}$		
$f(x) = -6x^{-4} + 2x^3 - x^{-2}$		
$f(x) = \frac{2}{9}x^{-3} - \frac{3}{5}x^{-10} + \frac{1}{7}x^{14}$		
$f(x) = \frac{1}{6}x^{-4} - \frac{1}{4}x^{-3} + \frac{2}{5}x$		
$f(x) = \frac{5}{8}x^{-3} - \frac{2}{5}x^{-1} + 4x^5$		