

Math Sheet #7

Due July 22, 2006

Name: ..... Date: .....

solve	solve	solve	solve
$\frac{d}{dx}D =$	$\frac{d}{dx}(ax)^b =$	$\frac{d}{dx}(ax^b + cx) =$	$\frac{d}{dy}(ay^b - y^c + dy - f)$
$\frac{d}{dx}e^x =$	$\frac{d}{dy}c^y =$	$\frac{d}{dy}\ln(y) =$	

Power of  $x$ .

$$\frac{d}{dx}c = 0 ; \frac{d}{dx}x = 1 ; \frac{d}{dx}x^n = n x^{(n-1)}$$

Exponential / Logarithmic

$$\frac{d}{dx}e^x = e^x ; \frac{d}{dx}b^x = b^x \ln(b) ; \frac{d}{dx}\ln(x) = 1/x$$