Lecture 11: The Derivative of $\ln x$

Goal: Differentiate $\ln x$. Present the technique of Logarithmic Differentiation. Derive the power rule.
Summary:

$(\ln x)' = \frac{1}{x}$	$(\log_b x)' = \frac{1}{x \ln b}$
$(\ln f(x))' = \frac{f'}{f}$	$x^p = e^{p \ln x}$