

Name \_\_\_\_\_

Date \_\_\_\_\_ Pd \_\_\_\_\_

**AP Calculus: Differentiation Gateway Exam (5 min)**  
**(Sample AB) Passing Score = 100% Correct**

$\frac{d}{dx}[\operatorname{arccot}(u)] =$	$\frac{d}{dx}[uv] =$
$\frac{d}{dx}[\arcsin(u)] =$	$\frac{d}{dx}[a^u] =$
$\frac{d}{dx}[u^n] =$	$\frac{d}{dx}[\sin(u)] =$
$\frac{d}{dx}[c] =$	$\frac{d}{dx}[\ln(u)] =$
$\frac{d}{dx}[\sec(u)] =$	$\frac{d}{dx}[\arctan(u)] =$
$\frac{d}{dx}[\operatorname{arccsc}(u)] =$	$\frac{d}{dx}[x] =$
$\frac{d}{dx}[\log_a(u)] =$	$\frac{d}{dx}[\cos(u)] =$
$\frac{d}{dx}[u \pm v] =$	$\frac{d}{dx}\left[\frac{u}{v}\right] =$
$\frac{d}{dx}[\cot(u)] =$	$\frac{d}{dx}[f^{-1}(x)] =$
$\frac{d}{dx}[\arccos(u)] =$	$\frac{d}{dx}[e^u] =$
$\frac{d}{dx}[\tan(u)] =$	$\frac{d}{dx}[cu] =$
$\frac{d}{dx}[\csc(u)] =$	$\frac{d}{dx}[\operatorname{arcsec}(u)] =$