Name:_____

MA 2320: Quiz 1
Calculus I Review

1. $\int e^{2x+1}\,dx$

2. $\int 3x\sqrt{x^2+1}\,dx$

Derivative Rule	**Antiderivative Rule**
$\frac{d}{dx}\left[x^n\right] = nx^{n-1}$	$\int x^n\,dx = \frac{x^{n+1}}{n+1} + C$ when $n \neq -1$
$\frac{d}{dx}\left[\ln(x)\right] =$	
$\frac{d}{dx}\left[e^x\right] =$	
$\frac{d}{dx}\left[\sin(x)\right] =$	
$\frac{d}{dx}\left[\cos(x)\right] =$	
$\frac{d}{dx}\left[\tan(x)\right] =$	
$\frac{d}{dx}\left[\sec(x)\right] =$	
$\frac{d}{dx}\left[\cot(x)\right] =$	
$\frac{d}{dx}\left[\csc(x)\right] =$	
$\frac{d}{dx}\left[\sin^{-1}(x)\right] =$	
$\frac{d}{dx}\left[\sec^{-1}(x)\right] =$	
$\frac{d}{dx}\left[\tan^{-1}(x)\right] =$	