Dawson	College:	Calculus	П٠	201.	NYR.	.05	٥5
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	January 28, 2011				
Last Name:					
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## Quiz 1 (B)

Question 1. Find the following derivatives:

(a) (1 mark) 
$$\frac{d}{dx}(\csc x)$$

**(b)** (1 mark) 
$$\frac{d}{dx}(\log_5 x)$$

(c) (1 mark) 
$$\frac{d}{dx}(\arctan x)$$

(d) (2 marks) 
$$\frac{d}{dx}(e^{\tan x})$$

Question 2. Find the following antiderivatives:

(a) (1 mark) 
$$\int \sec x \tan x \, dx$$

**(b)** (1 mark) 
$$\int \csc x \, dx$$

(c) (2 marks) 
$$\int \frac{x^2+1}{x^3} dx$$

(d) (1 mark) 
$$\int \frac{1}{x\sqrt{x^2-1}} dx$$