Math 181 Quiz 8 Version A

1. State the following derivative rules from memory:

$\frac{d}{-} \arccos x =$	
dx	

$$\frac{d}{dx}\sec x =$$

$$\frac{d}{dx}\tan x = \boxed{}$$

$$\frac{d}{dx}\arcsin x = \boxed{}$$

$$\frac{d}{dx}\csc x = \boxed{}$$

$$\frac{d}{dx}\cot x = \boxed{}$$

$$\frac{d}{dx}\arctan x =$$

$$\frac{d}{dx}\log_{10}x = \boxed{}$$

$$\frac{d}{dx}10^x = \boxed{}$$

2. Use the rules of calculus to compute the following derivatives:

(i)
$$\frac{d}{dx}\sec(x^2)$$

(ii)
$$\frac{d}{dx} \frac{\arctan x}{x}$$