Math 176 Quiz 6 Version A

1. Find the following derivatives:

$$\frac{d}{dx}(5x+x^{-1}) = \boxed{\frac{d}{dx}\frac{1}{\sqrt{x}}} = \boxed{}$$

- 2. Work only one of the following problems:
 - (i) Use implicit differentiation to find y' where $\sqrt{1+y^2} = 1 + x^2 xy$.
 - (ii) Find $\frac{d}{dx} \frac{x\sqrt{1+x^2}}{2+3x^4}$