Math 101-172-Sec.5 -Quiz #5		
Name:	ID:	SR:
Question1: Find the li	nearization $L(x)$ of the function $f($	$f(x) = e^{-\sqrt{2x+1}}$ ) at
a = 0.		

**Question2:** Find the slope of the tangent line to the curve  $y = \tanh^{-1}(\sqrt{x})$  when  $x = \frac{1}{4}$ .

**Question3.** The height and radius of a right circular cylinder are equal, so the volume is  $V = \pi r^3$ , where *r* radius is. If the radius is measured with a possible error of 1 *cm*. Find the maximum percentage error of the volume of the cylinder.