Name:	Section:
	Scelletti

Clear your desk of everything except pens, pencils and erasers. Show all your work. If you have a question raise your hand and I will come to you.

1. (5 points) Find the length of the curve given by $y = \frac{4\sqrt{2}}{3}x^{3/2} - 1$ for $0 \le x \le 1$ (Recall that $L = \int_a^b \sqrt{1 + [f'(x)]^2} dx$)

2. (5 points) Find the equation in x and y for the line tangent to the curve given parametrically by $x = 10\sin 2t$, $y = 10\cos 2t$ at the point on the curve associated with $t = \frac{\pi}{8}$.