NIANTE.		
NAME:		

Panther ID: _____

Worksheet week 11

- MAC 2311, Spring '14

1. Find the general antiderivative:

(a)
$$\int (\sec^2 x + \frac{3}{\sqrt{1-x^2}} - 5) dx$$

(b)
$$\int \frac{x^2 - 3}{2\sqrt{x}} \, dx$$

2. A particle is moving with the given data. Find the position of the particle.

$$a(t) = 2\cos t + \sin t$$
, $v(0) = 1$, $s(0) = 0$.

3. A car braked with constant deceleration of 16ft/s², producing skid marks measuring 200 ft before coming to a stop. How fast was the car traveling when the brakes were applied?