

## Indefinite Integral Quiz

1. Evaluate the following integrals

a.

$$\int \frac{12t^8 - t}{t^{3/2}} dt$$

b.

$$\int \sec \theta (\tan \theta + \sec \theta + \sin 2\theta) d\theta$$

(Hint:  $\sin 2\theta$  can be written as what using double angle formulas?)