

Math 180
Winter, 2009

Name _____

Homework #15
Due Monday, February 2
No late papers accepted! No excuses!

1. Find the most general anti-derivative.

a) $\int \sin^2 x dx$

b) $\int \frac{\csc x \cot x}{2} dx$

c) $\int \frac{t\sqrt{t} + \sqrt{t}}{t^2} dt$

d) $\int (x-1)(x+2)dx$

e) $\int \frac{1}{2\sqrt{x}} dx$

2. Find the position function given

$$a = e^t$$

$$v(0) = 20$$

$$s(0) = 5$$