

Math 180
Spring 2010

Name _____

Homework #13
Due Thursday, May 6
No late papers accepted! No excuses!

1. Evaluate each of the indefinite integrals.

a) $\int \cos x e^{\sin x} dx$

b) $\int \frac{\sqrt{\arctan x}}{1+x^2} dx$

c) $\int \sqrt{\frac{x-1}{x^5}} dx$

2. Solve the initial value problem.

$$\frac{d^3 r}{dt^3} = -\cos t$$

$$r''(0) = r'(0) = 0$$

$$r(0) = -1$$

3. Evaluate $\int_9^4 \frac{1 - \sqrt{x}}{\sqrt{x}} dx$