

Name _____

Homework 2
section 7.1

Evaluate each of the following integrals. Be sure that your answers are in terms of the same variables as the original integral.

1. (4) $\int 4e^{2\theta} \sec(e^{2\theta}) \tan(e^{2\theta}) d\theta$

2. (3) $\int_{-1}^1 \frac{1}{1+y^2} dy$

$$3. (4) \int \frac{t^2 + t}{(4 - 3t^2 - 2t^3)^4} dt$$

$$4. (3) \int \cot x dx$$

5. (1) $\int e^{\sin t} dx$ Hint: this isn't a typo.

6. (5) $\int \frac{dx}{2 + 2\sqrt{x}}$