

Name _____

Homework 1
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. (5) $\int 6e^{2\theta} \sec(e^{2\theta}) \tan(e^{2\theta}) d\theta$

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

3. (5) $\int \frac{t^2 + t}{(5 - 3t^2 - 2t^3)^4} dt$

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