Math 152A : Calculus and Analytic Geometry II Gateway Exam #0 (SAMPLE)

Name:	Social Security Number:
Recitation Instructor:	Recitation Hour:
*Note: Because you will only have 48 minu	cle your final answer. theses, etc. NO PARTIAL CREDIT will be given. tes for the actual Gateway, you should attempt to finish these sample
problems in 48 minutes or less. $\int \frac{1}{\sqrt[3]{x}} (x^{\pi} - x^{-\pi}) dx$	

$$2. \qquad \int \frac{1}{t(\ln t)^2} \ dt$$

3.
$$\int \frac{7p^2 + 20p + 16}{p^3 + 4p^2 + 4p} dp$$

$$4. \qquad \int x\sqrt{2x+3} \ dx$$

5.
$$\int \theta^3 \cos(\theta^2) \ d\theta$$

6.
$$\int \frac{w^3 + 5w^2 + 7w - 11}{w^2 + 6w + 13} \ dw$$