Name:	Quiz 4: Partial Fractions & Improper Integrals
MAT 296	Spring 2015

Problem 1: Integrate the following:

$$\int \frac{3x+1}{(x-2)(x+5)} \, dx$$

Problem 2: Find the value of the following integral or show that the integral does not converge.

$$\int_{2}^{\infty} \frac{dx}{\sqrt[7]{(x-1)^2}} \, dx$$

Problem 3: Use the Comparison Test to determine if the following integral is convergent or divergent.

$$\int_{1}^{\infty} \frac{6x}{3x^5 + 1} \, dx$$