## Calculus II - Fall 2014 - Mr. Clontz - Quiz 08

Fill in the circle with the correct answer for each of the following problems.

Name: \_\_\_\_\_\_\_ 9am / 10am

1. (10 points) Rewrite  $\int \frac{7x-5}{4x^2+11x-3} dx$  using partial fraction decomposition.

$$\bigcirc \int \frac{1}{x+3} - \frac{1}{4x-1} \, dx$$

$$\bigcirc \int \frac{2}{x+3} - \frac{1}{4x-1} \, dx$$

$$\bigcirc \int \frac{3}{x+3} + \frac{2}{4x-1} \, dx$$

$$\bigcirc \int \frac{4}{x+3} + \frac{2}{4x-1} \, dx$$

O None of these.

2. (10 points) Rewrite  $\int \frac{2x^3 + x^2 + 1}{x^2(x^2 + 1)} dx$  using partial fraction decomposition.

$$\bigcirc \int \frac{1}{x^2} + \frac{2x}{x^2 + 1} \, dx$$

$$\bigcirc \int \frac{1}{x^2} + \frac{1}{x+1} + \frac{2x}{x^2+1} dx$$

$$\bigcirc \int \frac{1}{x^2} + \frac{1+2x}{x^2+1} \, dx$$

O None of these.