**Problem 1:** Integrate the following:

$$\int \frac{2x^3 - 13x^2 + 16x - 4}{x - 5} \, dx$$

**Problem 2:** Integrate the following:

$$\int \frac{5x - 16}{2x^2 + 7x - 4} \, dx$$

**Problem 3:** Integrate the following:

$$\int \frac{5x^3 - 4x^2 + 3x - 1}{x^2 + x^4} \, dx$$