(C1-8.3) Name:

<u>Homework Questions 3 – Integration using the Integral Sign</u>

Integrate the following

1.

$$\int 3x^2 + 2x - 5 \ dx$$

2.

$$\int 5x^2 - 3x + 6 \ dx$$

3.

$$\int 2x^2 + 5x - 3 \ dx$$

4.

$$\int 4x^{-2} + 3x^{-3}$$

5.

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

6.

$$\int 7x^{-5} + 5x^{-3} + 4 \ dx$$

7.

$$\int x^3 + x^2 + x + 1 \ dx$$

8.

$$\int 5x^{-3} + 2x^{-2} + x \ dx$$

9.

$$\int 9x^5 + 8x^4 + 7x^3 + 3 \ dx$$

10.

$$\int 6x + 4 \ dx$$