Grima Mat 212
Chapter 5 extra practice test

#1-4: Find the antiderivative, be sure to include "+ C" in your answer.

1) $\int 10x dx$

2) $\int (15x^4 + 9x^2 - 5) dx$

3) $\int \frac{8}{x^2} dx$

4) $\int \frac{8}{x} dx$

#5-10: Use u-substitution to evaluate the indefinite integral.

5) $\int 16x(8x^2 - 1)^3 dx$

6) $\int 18x^2 e^{6x^3} dx$

7) $\int 18x(3x^2 + 10)^2 dx$

8) $\int 12x^2 e^{x^3} dx$

9) $\int \frac{5}{5x-7} dx$

10) $\frac{12}{3x-1} dx$

#11 has been deleted.

#12 – 15: Use the Fundamental Theorem of Calculus to evaluate the definite integral.

12) $\int_1^3 4x dx$

13) $\int_0^4 12x(x^2 + 1)^2 dx$

14) $\int_1^{e^2} \frac{3}{x} dx$

15) $\int_1^2 9(3x + 1)^2 dx$