HW 5 Due : Friday, Sep. 27

1

(7.1 Problem 20) $\int (x^2 - 2x)(x^3 - 3x^2 + 3)^{\frac{2}{3}} dx$

2

(7.1 Problem 22) $\int \dfrac{x^2 - 1}{x^3 - 3x + 1} dx$

3

(7.1 Problem 28) $\int \sec^2(x) e^{\tan(x)} dx$

4

(7.1 Problem 36) $\int \sqrt{1 + \ln x}\ \dfrac{\ln x}{x} dx$

5

(7.1 Problem 44) $\int_1^2 x^5 \sqrt{x^3 + 2} dx$

6

(7.1 Problem 52) $\int_0^{\frac{\pi}{3}} \dfrac{\sin x}{\cos^2(x)} dx$

7

(7.2 Problem 10) $\int 2x^2 e^{-x} dx$

8

(7.2 Problem 12) $\int x^2 \ln x\, dx$

9

(7.2 Problem 18) $\int_0^{\frac{\pi}{4}} 2x \cos(x) dx$

Extra Practice Problems (These are extra problems for you to practice and you can check the answers at the back of the book)
Sec 7.1 Problem 19, 21, 25, 35, 51, 57,55
Sec 7.2 Problem 9, 11, 17, 25, 39