MATH 20C: FUNDAMENTALS OF CALCULUS II
WORKSHEET, DAY #12

Problem 1. Evaluate the integral

$$\int (1-x)e^x \, dx.$$

Problem 2. Evaluate the integral

$$\int (x^2+1)e^{3x+1} \, dx.$$

Problem 3. Evaluate the integral

$$\int 5x(x-1)^4 \, dx.$$

Problem 4. Evaluate the integral

$$\int t^{-1/2} \ln t \, dt.$$

Problem 5. Evaluate the definite integral

$$\int_1^2 x^2 \ln(3x) \, dx.$$