

Name: _____
Spring 2018

MAT 296: HW 2
Due: 01/31

Problem 1: Integrate the following: $\int x^2 \ln x \, dx$

Problem 2: Integrate the following: $\int \frac{3 \ln x}{x^4} \, dx$

Problem 3: Integrate the following: $\int \sqrt{x} \ln x \, dx$

Problem 4: Integrate the following: $\int_0^1 x^3 \sqrt{1-x^2} \, dx$

Problem 5: Integrate the following:

$$\int x^3 \cos(3x) dx$$

Problem 6: Integrate the following:

$$\int e^{2x} \sin(3x) dx$$