

Mathematics 1220 Calculus II, Examination 2, Feb 12, 14, 2004

Find all the integrals. Remember that definite integrals should have numerical answers. You MUST show your work.

1a.  $\int (x + 1)x^{12} dx$

1b.  $\int \ln(x^2) dx$

2.  $\int \frac{dx}{x^2(x + 2)}$

3.  $\int_0^2 \frac{x}{1 + x^4} dx$

4.  $\int x(\sin x) dx$

5.  $\int_2^4 \frac{dx}{x(x - 1)}$