

Calculus II
Exam 2, Spring 2003

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

1a. $\int xe^x dx$

1b. $\int xe^{x^2} dx$

2. $\int_2^4 \frac{x dx}{x^2 - 4}$

3. $\int_0^{\pi/4} \tan x \ln(\cos x) dx$

4. $\int \frac{x}{\sqrt{1-x^2}} dx$

5. $\int_2^4 \frac{dx}{x(x^2 - 1)}$