Calculus II
Exam 2, Fall 2002

Find all the integrals. Remember that definite integrals should have numerical answers.

1a. $\displaystyle\int x\ln(2x)dx$

1b. $\displaystyle\int \frac{\ln(2x)}{x}dx$

2. $\displaystyle\int_2^4 \frac{dx}{x^2-1}$

3. $\displaystyle\int \tan^2 x\,dx$

4a. $\displaystyle\int e^x(e^{2x}+1)dx$

4b. $\displaystyle\int x(e^{2x}+1)dx$

5. $\displaystyle\int_1^2 \frac{dx}{x^2(x+1)}$