

MATH 20C: FUNDAMENTALS OF CALCULUS II
WORKSHEET, DAY #3

Problem 1. Evaluate the integral

$$\int \left(-2e^x + \frac{1.1}{x} - \frac{1}{8} \right) dx.$$

Problem 2. Evaluate the integral

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

Problem 3. Evaluate the integral

$$\int 2^x dx.$$

Problem 4. Find $y = f(x)$ if $f(1) = 1$ and the tangent line at (x, y) has slope $1/x$.