

MATH 220: CALCULUS I
WORKSHEET 26
APRIL 25, 2013

Homework: Section 3.11, Problems 1, 2, 3, 4, 23abcd, 31, 32, 33, 35, 38

1. Find the numerical value of any four of the following expressions (your choice).

- $\sinh(0)$
- $\tanh(0)$
- $\sinh(\ln 2)$
- $\cosh(3)$
- $\cosh(0)$
- $\tanh(1)$
- $\sinh(2)$
- $\cosh(\ln 3)$

2. Evaluate two of the following four limits (your choice).

- $\lim_{x \rightarrow \infty} \tanh(x)$
- $\lim_{x \rightarrow -\infty} \tanh(x)$
- $\lim_{x \rightarrow \infty} \sinh(x)$
- $\lim_{x \rightarrow -\infty} \sinh(x)$

3. Find the derivative. Simplify where possible.

- $\sinh(\ln x)$
- $\ln(\sinh x)$
- $\cosh(\sinh x)$