MA 126 — Fall 2016 — Prof. Clontz — Quiz

Name:

- $\frac{e^{k_1 2} + e^{-k_1 2}}{7} = \frac{2 + \frac{1}{2}}{2} = \frac{5/2}{2} = \frac{5}{4}$ 1. Evaluate cosh(ln 2).
 - A. $\frac{3}{5}$
 - B. $\frac{2}{3}$
 - D. None of these.
- 2. Differentiate $f(x) = \tanh(x^2) \cosh(2x+1)$.

A. $f'(x) = -\operatorname{sech}(x^2) \tanh(x^2) + \sinh(2x+1) + 2$ B. $f'(x) = 2x \operatorname{sech}^2(x^2) - 2 \sinh(2x+1)$ C. $f'(x) = \frac{1}{1+x^4} + 2 \sinh(2x+1)$ D. None of these.

 $f'(\kappa) = \operatorname{sech}^{2}(\chi^{2})(2\kappa) - \operatorname{sim}(2\kappa+1)(2)$

= 2x sech2(x2) - 2 sinh(2x+1)