
Quiz #11

1. Determine the exact value of the following: (*Show your complete work to get full credit.*)

a. $\tanh(\ln 2)$ [2]

b. $\tanh^{-1}(\frac{1}{2})$ [2]

2. Find the derivative of the following:

a. $f(x) = \sinh^2(5x) + \operatorname{sech}(5x)$ [2]

b. $g(x) = \ln(\cosh 3x) + e^{\coth 2x}$ [2]

c. $y = \cosh^{-1}(\sinh x) + \tanh^{-1} \sqrt{x}$ [2]