

Homework #4 Final Answers

6.7

1a. 0

1b. 1

15. show both sides are equal.

33. $2x \cosh(x^2)$

34. $\frac{\cosh t}{\sinh t}$

59. $\frac{\cosh^3 x}{3} + C$

61. $2 \cosh \sqrt{x} + C$

62. $\ln |\cosh x| + C$

OR

$\ln |e^x + e^{-x}| + C$

chapter 6 Review

40. $\frac{1}{[1 + (\arcsin \sqrt{x})^2] \sqrt{1-x} \cdot 2\sqrt{x}}$

41. $-\frac{1}{x} - \frac{1}{x(\ln x)^2}$

63. 0

65. 0

92. $\frac{\pi}{16}$

95. $\arctan e^{-\pi/4}$

102. $\frac{\arcsin(x^2)}{2} + C$

PLVS Q: Follow proof from "class"