

# Chapter 5 Review #2 Answers - Calculator

1. E

\* This goes back to what you learned in Netmath!  
What functions are more powerful

2.  $\ln(2x+y) = x+1$

$$\frac{2 + \frac{dy}{dx}}{2x+y} = 1$$

$$2 + \frac{dy}{dx} = 2x+y$$

$$\frac{dy}{dx} = 2x+y-2 = B$$

3.  $h(x) = e^x \cdot g(x)$

$$h'(x) = e^x g'(x) + g(x) e^x$$

$$h'(-1) = e^{-1} g'(-1) + g(-1) e^{-1}$$

$$g'(-1) = \frac{3 - -3}{-1 - 0} \text{ (slope of tangent line @ } x = -1)$$

$$\rightarrow = \frac{1}{e} \cdot -6 + 3 \cdot \frac{1}{e} = \frac{-6}{e} + \frac{3}{e} = \frac{-3}{e} = B$$

4.  $\ln((2x)^3 + 1) \cdot 2$

$$= 2 \ln(8x^3 + 1) = D$$

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Calculator

1.  $200 - \int_0^4 |R(t)| = 175.165 = A$