

Review for Chapter 4 Test

1. Be able to find the derivative of an inverse function? P. 248 & Quiz 4.1-4.3
2. Solve equations involving logs or exponential equations. P. 261 #16-31 & Quiz 4.1-4.3
3. Find a variety of derivatives using logs and exponential functions. P. 267 #1-30 & Quiz 4.1-4.3
4. What are the derivatives of $y = e^x$, $y = \ln x$, $y = b^x$, $y = \log_b x$?
5. Find the equation of the tangent line to the graph at a particular value of x . Ex: $y = e^x$ for $x = 3$.
6. Use implicit differentiation to find $\frac{dy}{dx}$. P. 267 #31-32
7. What are the derivatives of $y = \sin^{-1} x$, $y = \tan^{-1} x$, $y = \sec^{-1} x$?
8. Do a variety of problems involving the derivative of inverse trig functions. P. 274 #23-30
9. Be able to solve a problem involving related rates.