

Reading Quiz 04 for Calculus 3096

Name : _____ Student ID # : _____ Score : _____

Read chapter 4.

1. State all laws of exponents in page 230.
2. What is e ?
3. Write the differential equation satisfied by $y = Ce^{kt}$ in page 241.
4. State the properties that graphs of the form $y = e^{kt}$ have in common when k is positive.
When k is negative. (pp. 241-242)
5. What is a logarithm? (page 245)
6. What is the x -intercept of the graph of the natural logarithm function?
7. State the main features of the graph of $y = \ln x$.
8. State the two key equations giving the relationships between e^x and $\ln x$.