Pre calculus questions

Technology, Information Technology

Pre Calculus Questions Of all the rules of derivatives, I found chain rule to be a bit challenging to use despite the fact that it is the most dominant. The other students I consulted too seemed to experience the same problem. The main problem I experienced with this rule knows the right time to apply it. It also involves composite functions, which made it even more of a hard nut to crack for me. Numerous substitutions even worsened the situation for me because I occasionally forgot to make substitution when required. Differentiation was more difficult than the integral. The integral, especially computing area under the curve was a scary encounter. However, I later discovered that integration is the easier of the two concepts through practice. Using numerical data, differentiation proved to be the most difficult concept to use and in some case, I realized when doing trial questions that it was difficult to use differentiation. I realized that differentiation was only nice when using explicit formulae to solve functions. Integration seemed impossible explicitly but it was comfortable numerically.

Natural exponential function can be used to estimate the size of a population with a constant relative growth rate. In estimating population growth, the formula $P(t) = P(0) e^{kt}$ where P is population after a period t, k denotes constant relative growth rate, and P (0) denotes the initial population size at t = 0. The measurement of time used in the formula is in most cases proportional to the life of the organisms under study. In the case of bacteria, hours or days are utilized while for human beings, t is normally in years.