ECO 2361 ASSIGNMENT

ANSWER ALL QUESTIONS.

1. If the 12th term of an A.P. is 19 and 17th term in 29, Find the first term and the common difference.
2. A machine costs 12 000 dollars, depreciates 25 percent the first year, 21 percent of the original value the second year, 17 percent of the original value of the third year, and so on for 6 years. What is its value at the end of 6 years.
3. The value of an auto mobile depreciates at the rate of 15% per year. What will be the value of an automobile 3 years hence which is now purchased for Rs. 45,000?
4. Find the total derivative , given and
5. Let be a Cobb-Douglas production function whererepresents labor, represents time, and represents time. Since and can change over time, it is the case that and Find the total derivative of this production function.
6. Let Find the partial derivatives with respect to and