| 77.00 | l in the blanks with the correct answers. Write your answer on a separate sheet paper.  |
|-------|---|
|       | The derivative of a constant is  The derivative of the nth power of a variable is the product of and the  |
|       | power of the variable.  |
| 3.    | The derivative of a sum of a finite number of differentiable functions is a sum of the derivatives, and the derivative of the equals the difference of the derivatives.                       |
| 4.    | The derivative of a product of two functions is the first function times the of the second plus the second function times the derivative of the first.  |
|       | The derivative of a of two functions is the denominator times the derivative of the numerator minus the numerator times the derivative of the denominator divided by the denominator squared. |
| 6.    | Expressions written in form can be converted to logarithmic function and vice versa.  |
| 7.    | Expressions written in form can be converted to logarithmic function and vice versa.  Derivative of Logarithmic Function: $\frac{d}{dx}(\log_b x) = 0$ Preview Page 4                         |
|       |   |
|       | The most widely used trigonometric functions in modern mathematics are the, the, and the Their reciprocals are the cosecant, the secant, and the cotangent, respectively. $D_x(\sec x) = $    |
|       | $D_x(\cot x) =$   |