**IB Math HL1 : Logarithmic Derivatives Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_**

|  |  |
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| Warm UP: Differentiate with respect to x: |  |

1.  2. 

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|  | 4. | |
| 5.  **Derivative using the properties of Logarithm**   |  | | --- | | ***Notes: The idea is to find***  *by* ***the properties of logarithm instead of the product rule and the quotient rule.***  **Example) Find**  (Differentiate with respect to x). | | |  |
| Practice) **Find** . Show your work. |  | |
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