IB Math HL1 18C The Product Rule

Warm Up: Find 

1.  2. 

**The Product Rule Investigation**

Complete the table, finding  by direct differentiation.

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The Product Rule

If , then 

3. Given , find  by

a. expanding first.

b. using the Product Rule.

4. Find  if 

Practice) Use of power rule, chain rule, and product rule.

Find .

1.  2. 

Find the gradient of the tangent line to:

3.  at 

4. Suppose where a and b are constants. Find a and b given that and.