IB Math HL1 Exit Slip #1 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period: \_\_\_\_

Find .

1.  2.  3. 

4. Find , by logarithmic differentiation, for 

5. Find the equation of the normal line at  for.

6. The tangent to  at *x* = 1 is . Find a and b.

7. Find the equation of the normal to , where , from the external point (4, 0).

8. Given , the equation of tangent to f(x) at x=3 is . Find a and b.

9. . Find  for 