

Name: \_\_\_\_\_

Date: \_\_\_\_\_

## QUIZ 1 – MATH GRADE 12 HL IB

1. (10%) Represent the function (use zoom standard, call teacher once you did)

$$f(x) = \frac{2x + 2.5}{x^2 - 1} + 4$$

Teacher's signature:

Find:

2. (10%)  $f(0) =$

3. (10%)  $f(2) =$

4. (10%) how many x intercepts the function have? Answer: \_\_\_\_\_

5. (10%) Find all of them, Answer: \_\_\_\_\_

6. (10%) Find the local Maximum: (      ,      )

7. (10%) Find the local Minimum: (      ,      )

8. (10%) Find  $f'(2) =$

9. (10%) Find the equation of the tangent to the function where  $x = 3$  (use 2 decimal places)

Answer: \_\_\_\_\_

10. (10%) Find all the intersections of the function with the function  $g(x) = x$

Answer: \_\_\_\_\_