

## AP Calc Test 1 In Class Rev 2

Calc OK

- 1) Sketch a graph and find all vertical & horizontal asymptotes and any holes for

$$f(x) = \frac{x^3 - 9x}{3x^2 - 6x - 9}$$

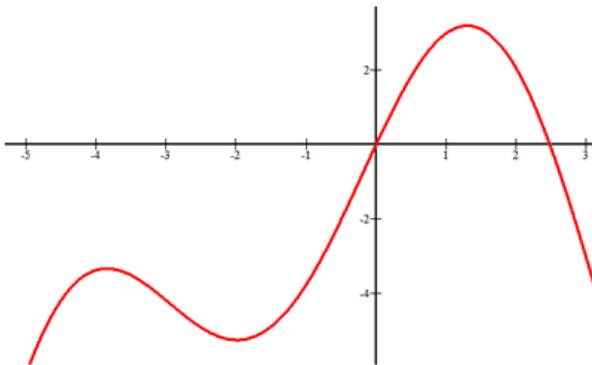
- 2) Find all the zeros of:

a)  $f(x) = 6x(x + 1)(x - 8)$

b)  $f(x) = 6x^3 + 8x + 1$

No Calc

- 1) Determine the intervals where the function is increasing and decreasing.



- 2) How many **real roots** does the function  $f(x) = x(x + 2)^2(3x^2 - 2)(x^2 + 1)$  have?