IB PreHL Rational Functions Exit Slip #2 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **No Calculators!**

1. Given 

a. Find the vertical asymptote(s)

b. Find the oblique asymptote.

c. Find x-intercept(s) and y-intercept.

d. Sketch the graph using the answers of a-c.

**2. Make a sign diagram for  and then solve** 

 **3.** For the function

a) State the domain and the range.

b) Describe the end behaviors for f(x)  and .

c) Describe the transformation of f(x) from .

4. Solve . Support your answers by sign diagram.

5. Given 

a) Solve analytically b) Solve graphically (Use G calculator)

6. Given 

a) Solve analytically b) Solve graphically (Use G calculator)