IB PreHL Rational Functions Exit Slip Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 Period:\_\_\_\_\_\_\_\_

**No Calculators!**

1. Given 

a. Find the vertical asymptote(s)

b. Find the oblique asymptote.

c. Find the hole (removable discontinuity) in form of (x, y) if any.

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

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

 **2.** For the function, state the followings.

 a. Vertical Asymptote(s): \_\_\_\_\_\_\_\_\_\_\_\_\_\_ b. Horizontal Asymptote: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

c. Hole(s)(removable discontinuity) \_\_\_\_\_\_\_\_\_d. Oblique Asymptote:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

e. x-intercept(s): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ f. y-intercept: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

e. Sketch the graph using above answers

3. Write the equation of the following rational functions.

a. b.

