**Pre-Calculus Honors Graphs of Rational Functions Supplemental Worksheet 2.6-2.7**

**All work must be shown to receive full credit. The use of graphing calculator is prohibited!**

For problems 1-5, find the following, if possible: a) domain, b) horizontal asymptote, c) vertical asymptote, d) holes, e) oblique asymptote, f) x-intercept(s), g) y-intercept, h) graph and i) range.

Then evaluate the indicated limits.

1. 

a.

b.

c.

d.

e.

2. 

a.

b.

c.

3. 

a.

b.

c.

d.

e.

4. 

a.

b.

c.

d.

e.

5. 

a.

b.

c.

d.

e.

Solve each rational equation. State the excluded values. Watch for extraneous solutions.

6.

7.

8.

9.

10.

11.

12.

13.

14.

15.

16.

17.

18.

19.

20.