1.

## 7.2 Graphing Rational Functions DAY TWO CYU

☐ Use when you get it right all by yourself

 ${m S}$  Use when you did it all by yourself, but made a silly mistake

HUse when you could do it alone with a little help from teacher or peer

**G** Use when you completed the problem in a group

X Use when a question was attempted but wrong (get help)

NUse when a question was not even attempted

CONCEPTS	BASIC	INTERMEDIATE	ADVANCED
Graphing rational functions		7, 8	3, 4
Understanding transformations		1 - 8	
Vertical asymptote		5 - 8	1 - 4
Horizontal asymptote		5 - 8	1 - 4
Domain & range in interval notation		5 - 8	
Holes	3	4	
Factoring quadratics	3	1, 4	
x-intercepts	1	2	

Identify the holes, vertical asymptotes, x-intercepts, and horizontal asymptote of each.

VA: X = -3, X = 2 x-intercepts: NONE

2. 
$$g(x) = \frac{x-2}{x-4}$$

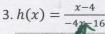
2.  $g(x) = \frac{x-2}{x-4}$ Holes: NONE

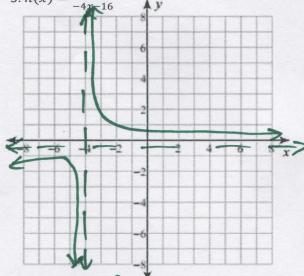
VA: K=4

x-intercepts: (2,0)

HA: y=1

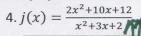
II. Identify the holes, vertical asymptotes, and horizontal asymptote. Then sketch the graph.

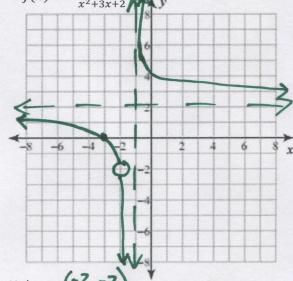




Holes: None X=-4

x-intercepts: \_





x-intercepts: (-3,0)

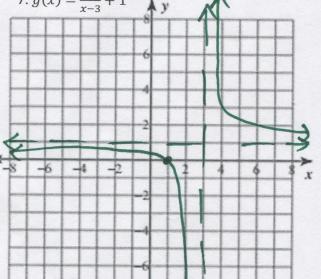
III. Identify the vertical asymptotes, horizontal asymptotes, domain and range of each in interval

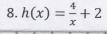
5.  $k(x) = \frac{4}{x-1} + 1$ VA: x = 1HA: y = 1Domain:  $(-x, 1) \lor (1, x)$ Range:  $(-x, 1) \lor (1, x)$ 

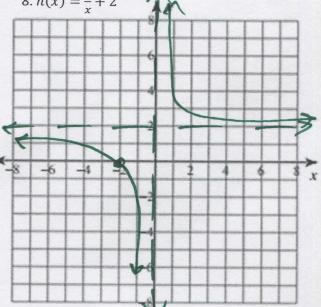
6.  $f(x) = -\frac{3}{x-1} - 1$ VA: X = 1HA: Y = -1Domain:  $(-\infty, 1) \cup (-1, \infty)$ Range:  $(-\infty, -1) \cup (-1, \infty)$ 

IV. Identify the vertical asymptotes, horizontal asymptote, domain and range of each. Then sketch the graph.

 $7. g(x) = \frac{2}{x-3} + 1$ 







CYU Reflection: How far can you go: basic, intermediate, or advanced?

## Rate your mastery level!

How confident are you with the skills this CYU covered? Circle the score you would give yourself.

