

7.2 Graphing Rational Functions DAY TWO CYU

Use when you get it right all by yourself

S Use when you did it all by yourself, but made a silly mistake

H Use 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)

N Use 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	

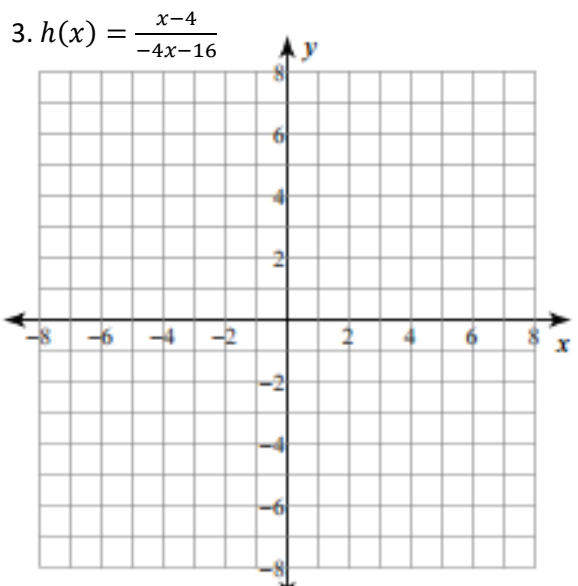
I.

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

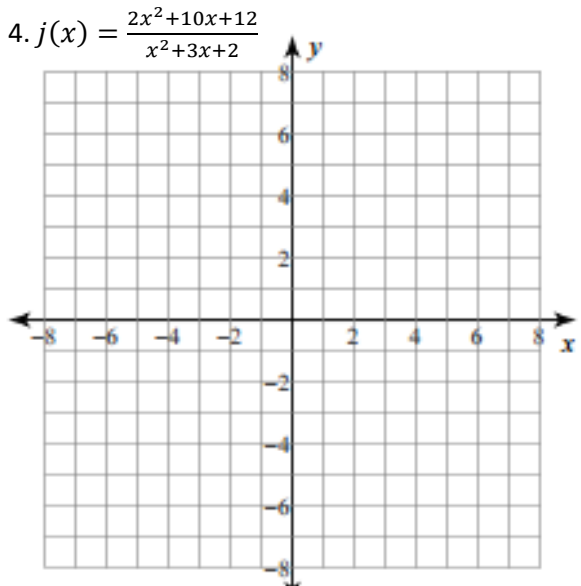
1. $f(x) = \frac{1}{3x^2+3x-18}$
 Holes: _____
 VA: _____
 x-intercepts: _____
 HA: _____

2. $g(x) = \frac{x-2}{x-4}$
 Holes: _____
 VA: _____
 x-intercepts: _____
 HA: _____

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



Holes: _____
 VA: _____
 x-intercepts: _____
 HA: _____



Holes: _____
 VA: _____
 x-intercepts: _____
 HA: _____

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

5. $k(x) = \frac{4}{x-1} + 1$

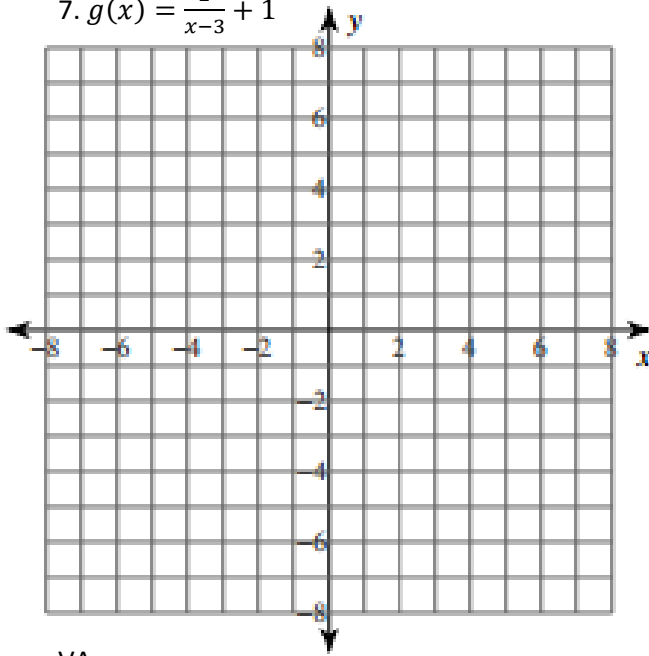
VA: _____
 HA: _____
 Domain: _____
 Range: _____

6. $f(x) = -\frac{3}{x-1} - 1$

VA: _____
 HA: _____
 Domain: _____
 Range: _____

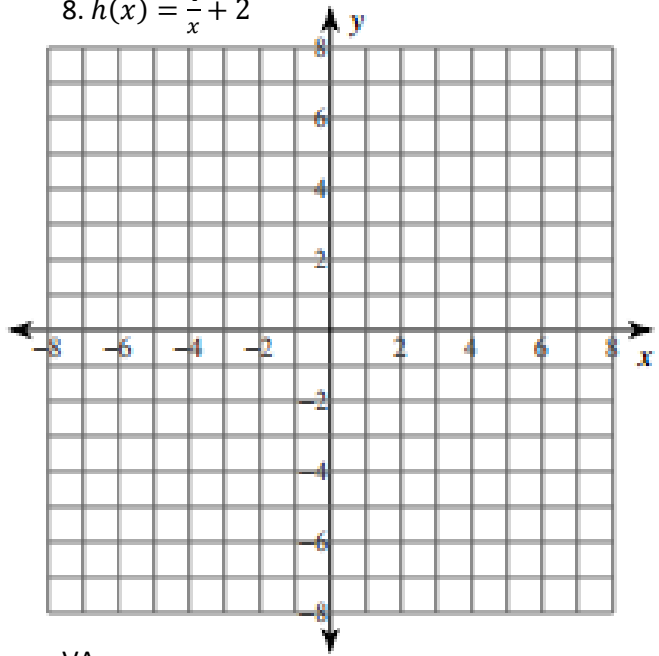
IV. Identify the vertical asymptotes, horizontal asymptote, domain and range of each. Then sketch the graph.

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



VA: _____
 HA: _____
 Domain: _____
 Range: _____

8. $h(x) = \frac{4}{x} + 2$



VA: _____
 HA: _____
 Domain: _____
 Range: _____

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.

