Pd

## 7.1 Rational Functions DAY ONE CYU

☑ Use when you get it right all by yourself

 $oldsymbol{\mathcal{S}}$  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

 $m{G}$  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
	1 2	3	4
Domain in interval notation.	1, 2	7.0	9 10
Simplifying Rational Expressions	5, 6	7, 6	3, 10

Find the domain of each rational expression in interval notation.

$$1. f(x) = \frac{5x - 7}{4}$$

$$3. h(x) = \frac{3x}{7-x}$$

$$4. R(x) = \frac{x}{3x-1}$$

 $(-\infty, \infty)$ 

(- a, 3) U(1, a)

Simplify each expression. Restrict the domain in interval notation too.

$$5.\,\frac{x+7}{7+x}$$

$$6.\,\frac{y-9}{9-y}$$

$$7.\frac{2}{8x+16}$$

$$8. \frac{-4x-4y}{x+y}$$

9. 
$$\frac{7x+3}{x^2+5}$$

$$10.\,\frac{9x+99}{x^2+11x}$$



(-x,-11)v(-11,0)

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.

