Date _

Pd

7.4 Adding/Subtracting/Multiplying/Dividing Rational Expressions & Complex Fractions DAY THREE CYU

☑ Use when you get it right all by yourself

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	
LCD	1-3	4 - 6	7	
Domain restriction in interval notation	1 - 3	4 - 6	7	
Adding rational expressions	2	8	7	
Subtracting rational expressions	1	5, 6, 8	7,9-11	
Dividing rational expressions		8	9 - 11	
Multiplying rational expressions		8	9 - 11	
Complex Fractions			8 - 11	

Find the sum or difference. Show all work to earn full credit. State the LCD and domain restriction. Simplify completely.

1. -	9	2 <i>x</i>	2	$3x^2$	6 <i>x</i>
	$\overline{x+1}$	<i>x</i> +1	۷.	x-8	$\overline{x-8}$

Find the LCD of the expression.	Then state the domain restriction in interval notation.
3. $2x \& 2x(x-5)$	$4.9x^2 - 16 \& 3x^2 + x - 4$

Find the sum or difference. Show all work to earn full credit. State the LCD and domain restriction. Simplify completely.

г ³	1	$c x^{2}-5$		x+3	-x+3	x-1	3
5. $\frac{1}{x+4}$	$\frac{1}{x+6}$	0. $\frac{1}{x^2+5x-1}$	14	x+7	r_{x^2-25}	$\frac{1}{x-5}$ +	x+3

Simplify the complex fraction. Assume all values are defined.

8.
$$\frac{\frac{x}{3}-6}{10+\frac{4}{x}}$$

9.
$$\frac{\frac{1}{2x-5} \frac{7}{8x-20}}{\frac{x}{2x-5}}$$



11.
$$\frac{\frac{3}{x-2} - \frac{6}{x^2 - 4}}{\frac{3}{x+2} + \frac{1}{x-2}}$$

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.

