Name _____ **Date** _____ **Period** _____

7.5 Solving Rational Equations 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
State the LCD	1, 4	2	3, 5 - 8
Restrict the domain in interval notation	1, 4	2	3, 5 – 8
Solve rational equations	1, 4	2	3, 5 – 8
Check for extraneous solutions	1, 4	2	3, 5 - 8

State your LCD, restrict your domain, solve the equation, and check for extraneous solutions. All work must be shown to earn full credit.

1. $\frac{6}{x^2} - \frac{5}{x} = 1$

2. $\frac{2}{x+2} + \frac{2}{x-4} = 1$

3. $\frac{1}{x+3} + \frac{1}{x-3} = \frac{6}{x^2-9}$

4. $\frac{3}{5x} = \frac{2}{x-7}$

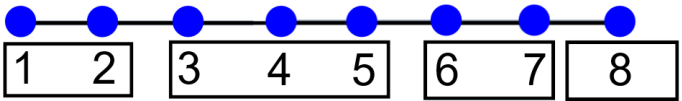
5. $\frac{5}{x}+2=\frac{6}{x}$

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

7. $\frac{2}{x-2}=\frac{x}{x-2}+\frac{6}{x^2+3x-10}$

8. $\frac{2}{x-3}-\frac{4}{x+3}=\frac{8}{x^2-9}$

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.