

Name \_\_\_\_\_ Date \_\_\_\_\_ Pd \_\_\_\_\_

Bridge to Algebra 2

7.5 Solving Equations with Rational Expressions 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
Determining an LCD	2, 4, 5	1, 3	6 - 10
Restricting the domain in interval notation	2, 4, 5	1, 3	6 - 10
Solving rational equations	2, 4, 5	1, 3	6 - 10
Checking solutions	2, 4, 5	1, 3	6 - 10

State the LCD. Restrict the domain. Then solve each equation. Check your solution(s).

1.  $\frac{a}{a-6} = \frac{-2}{a-1}$

2.  $\frac{2}{y} + \frac{1}{2} = \frac{5}{2y}$

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

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

$$5. \frac{6}{4-3x} = -3$$

$$6. \frac{y}{2y+2} + \frac{2y-16}{4y+4} = \frac{2y-3}{y+1}$$

$$7. \frac{4r-4}{r^2+5r-14} + \frac{2}{r+7} = \frac{1}{r-2}$$

$$8. \frac{3}{x+3} = \frac{12x+19}{x^2+7x+12} - \frac{5}{x+4}$$

$$9. \frac{x+1}{x+3} = \frac{x^2-11x}{x^2+x-6} - \frac{x-3}{x-2}$$

$$10. \frac{2x+3}{x-1} - \frac{2}{x+3} = \frac{5-6x}{x^2+2x-3}$$

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**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.

