Name _____ Date _____ Pd _____
Bridge to Algebra 2   **7.5 Solving Equations with Rational Expressions DAY TWO CYU**

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

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

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

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

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

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

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

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

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

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

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.

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| Basic | | Intermediate | | | Advanced | | Solved ALL! |