7.4 Adding & Subtracting Rational Expressions DAY ONE 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

& 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 | () () () () () () () () () () |
| Domain restriction in interval notation | 1 - 3 | | |
| Adding rational expressions | | 2 | |
| Subtracting rational expressions | | 1, 3 | |

Add or subtract the following rational expressions. State your LCD, restrict your domain, and simplify your answer completely.

1.
$$\frac{5}{2x-12} - \frac{20}{x^2-4x-12}$$

2(X-1/2) (X-1/2) (X+2)

LCD:
$$2(x-6)(x+2)$$

D: $(-\infty, -2) \cup (-2, 6)$
 $\cup (6, \infty)$

2.
$$\frac{3}{x^2-5x+6} + \frac{2}{x^2-4}$$

(x-3)(x-2) (x+2)(x-2)
LCD: (x-3)(x-2)(x+2)
D: (-\alpha, -2)U(-2,2)U(2,3)U(3,\alpha)

3. $\frac{1}{x^2-2x+1} - \frac{x+1}{x^2+x-2}$ (x-1)(x-1) (x+2)(x-1)

LCD: (x-1)²(x+2)

D: (- α_1 -2) $U(-2_11)U(1_1\infty)$

$$\frac{-(\chi^{2}-\chi-3)}{(\chi-1)^{2}(\chi+2)}$$

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.

