Date _____

7.3 Multiplying & Dividing 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

 \emph{H} Use when you could do it alone with a little help from teacher or peer

 $m{G}$ Use when you completed the problem in a group

 \pmb{X} Use when a question was attempted but wrong (get help)

NUse when a question was not even attempted

CONCEPTS	BASIC	INTERMEDIATE	ADVANCED
Simplifying rational expressions	2	1, 3 - 6	
Multiplying rational expressions		7 - 8	
Dividing rational expressions	9	10	

Simplify the following rational expressions.

1.
$$\frac{x^2 + 3x + 2}{x^2 - 3x - 4}$$
 2. $\frac{4x^6}{2x^4}$ 3. $\frac{x^2 - x^3}{2x^2 - 5x + 3}$

4.
$$\frac{x^3 + x^2 - 20x}{x^2 - 16}$$
 5. $\frac{3x^2 - 9x - 12}{6x^2 + 9x + 3}$ 6. $\frac{9 - 3x}{15 - 2x - x^2}$

Multiply. ASSUME all expressions are defined. Simplify completely.

7.
$$\frac{4x+16}{2x+6} \bullet \frac{x^2+2x-3}{x+4}$$

8. $\frac{x+3}{x-1} \bullet \frac{x^2-2x+1}{x^2+5x+6}$

Divide. Assume all expressions are defined. Simplify completely.

9.
$$\frac{5x^6}{x^2y} \div \frac{10x^2}{y}$$

10. $\frac{x^2 - 2x - 8}{x^2 - 2x - 15} \div \frac{2x^2 - 8x}{2x^2 - 10x}$

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.

