$\qquad$ Date $\qquad$ Period
7.3 Multiplying \& Dividing Rational Expressions DAY ONE CYU


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

Multiply. ASSUME all expressions are defined. Simplify completely.
7. $\frac{4 x+16}{2 x+6} \bullet \frac{x^{2}+2 x-3}{x+4}$
8. $\frac{x+3}{x-1} \bullet \frac{x^{2}-2 x+1}{x^{2}+5 x+6}$

Divide. Assume all expressions are defined. Simplify completely.
9. $\frac{5 x^{6}}{x^{2} y} \div \frac{10 x^{2}}{y}$
10. $\frac{x^{2}-2 x-8}{x^{2}-2 x-15} \div \frac{2 x^{2}-8 x}{2 x^{2}-10 x}$

CYU Reflection: How far can you go: basic, intermediate, or advanced?
Rate your mastery leve!!
How confident are you with the skills this CYU covered? Circle the score you would give yourself.


