

7.2 Dividing Rational Functions 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
Dividing rational expressions	1, 2, 9	3 - 5	6 - 8
Simplifying rational expressions	1, 2, 9	3 - 5	6 - 8

Find each quotient and simplify if possible. Show all work to earn full credit.

1. $\frac{5x^7}{2x^5} \div \frac{15x}{4x^3}$

$\frac{2x^4}{3}$

2. $\frac{8x^2}{y^3} \div \frac{4x^2y^3}{6}$

$\frac{12}{y^6}$

3. $\frac{(x-6)(x+4)}{4x} \div \frac{2x-12}{8x^2}$

$x(x+4)$

$$4. \frac{3x^2}{x^2-1} \div \frac{x^5}{(x+1)^2}$$

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

$$5. \frac{m^2-n^2}{m+n} \cdot \frac{m}{m^2+mn}$$

$$m^2-n^2$$

$$6. \frac{x+2}{7-x} \div \frac{x^2-5x+6}{x^2-9x+14}$$

$$-\frac{x+2}{x-3}$$

$$7. \frac{x^2+7x+10}{x-1} \div \frac{x^2+2x-15}{x-1}$$

$$\frac{x+2}{x-3}$$

$$8. \frac{x+1}{(x+1)(2x+3)} \div \frac{20x+100}{2x+3}$$

$$\frac{1}{20(x+5)}$$

$$9. \frac{7a^2b}{3ab^2} \div \frac{21a^2b^2}{14ab}$$

$$\frac{14}{9b^2}$$

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.

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