

QUIZ NEXT DAY

U1D4 HW: Pgs. 50-51 #1ac, 2ace, 3ace, 4ace, 5ace, 6aceg, 7ace, 8ac (eoo for 1-8), 9

U1D4 Warm-Up: Simplify. $\frac{-4x^2y^2-4xy^3}{12x^4y+12x^3y^2}$ $\frac{4x^2-25}{2x^2-3x-5}$

MCR 3UI

Multiplying and Dividing Rational Expressions

We multiply and divide rational expressions using the _____ that we do with _____.

When Multiplying, multiply _____ together and _____ together and then _____ to simplify. You could also _____ and then multiply to make your math easier!

When Dividing, multiply by the _____!

Examples: State restrictions and simplify.

(a) $\frac{3a^3}{2b^2} \times \frac{10b^2}{9a^2}$

(b) $\frac{y^3}{6} \div \frac{y^2}{-3}$

(c) $\frac{6m^3}{m+3} \times \frac{5m+15}{8m^3}$

(d) $\frac{12a^2-19a+5}{4a^2-9} \div \frac{3a-1}{2a-3}$

(e) $\frac{6x^2-7xy+2y^2}{5x^2-3xy-2y^2} \times \frac{5x^2+22xy+8y^2}{2x^2+7xy-4y^2}$