

MAT0028 ~ Lesson 38

Work the following examples as you listen to the recorded lecture.

Multiplying and Dividing Rational Expressions

Example 1: $\frac{3x}{y^2} \cdot \frac{7y}{4x}$

Example 2: $-\frac{5a^2b}{30a^2b^2} \cdot b^3$

Example 3: $\frac{6x+6}{5} \cdot \frac{10}{36x+36}$

Example 4: $\frac{x^2-25}{x^2-3x-10} \cdot \frac{x+2}{x}$

Simplifying Rational Expressions, page 2

Example 5: $\frac{x^2+6x+8}{x^2+x-20} \cdot \frac{x^2+2x-15}{x^2+8x+16}$

Example 6: $\frac{5x^7}{2x^5} \div \frac{15x}{4x^3}$

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

Example 8: $\frac{x^2+7x+10}{x-1} \div \frac{x^2+2x-15}{x-1}$