MTH 28 LECTURE NOTES (Ojakian)

Topic 10: Intro to Rational Expressions

OUTLINE

References: 7.1

1. Rational Expressions - Intro

   What they are? And Simplifying

   PROBLEM 1.

   (a) Section 7.1: 5, 8

   (b) $\dfrac{12(x+1)(x)(7x-2)}{10(7x+2)(x+1)(x)}$

   (c) Section 7.1: 9, 11

2. Multiplying and Dividing Rational Expressions

   PROBLEM 2.

   (a) $\dfrac{10x^3y^2}{3z^2w} \cdot \dfrac{12z^8w^9}{15xy}$

   (b) $\dfrac{10x(x-3)(x-2)}{3(2x+1)(x+3)} \cdot \dfrac{12(x+3)}{15x(x-2)}$

   (c) $\dfrac{10x^3y^2}{3z^2w} \div \dfrac{15xy}{12z^8w^9}$

   (d) $\dfrac{x^2-3x-18}{10x^3-50x^2+60x} \div \dfrac{12x+36}{15x^2-30x}$

3. Where Rational Expressions Are Undefined

   Section 7.1: 1, 3