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Math 1010 Guided Notes

H.W. Number: 3.4 Textbook Section: 6.4

A. Take notes while reading the textbook or watching the lecture videos. Write out any definitions, formulas, properties, or procedure steps.

Rules for Adding and Subtracting Rational Expressions:

Adding- find the LOD

- · write each regtional expression as an equivalent rational expression with the LODGS DEDGMINGTOR
- · Add the numerators to obtain the numerator of the sum the LCD is the Denominator of the sum
- · Wife in lowest terms

Reminders/Cautions:

sign errors often occur in subtraction Problems. Be sure to use parenthesis after the subtraction symbol.

B. Write out each learning OBJECTIVE word for word. Write one example demonstrating that objective.

OBJECTIVE 1: Add rational etfressions

Example having the same denominator

$$\frac{4}{9} + \frac{2}{9} = \frac{3}{1} + \frac{3}{1} + \frac{3}{1}$$

$$\frac{4+2}{9} = \frac{3\times+3}{\times+1}$$

$$\frac{6}{9} = \frac{3}{3}$$
 $\frac{3(x+1)}{x+1}$

OBJECTIVE 2: Add (ational expressions having different denuminators

$$\frac{5}{60} + \frac{38}{60} = \frac{5138}{60}$$

OBJECTIVE 3: SUBTRACT (ational EXAMPLE

$$\frac{2m}{m-1} - \frac{m+3}{m-1} = \frac{2m-(m+3)}{m-1}$$
:
$$\frac{m-3}{m-1} = \frac{2m-m-3}{m-1}$$

$$\frac{9}{x-2} - \frac{3}{x} = \frac{9x}{x(x-2)} - \frac{3(x-2)}{x(x-2)} = \frac{9x - 3(x-2)}{x(x-2)} = \frac{9x - 3x + 6}{x(x-2)} = \frac{9x - 3x +$$