

Unit 7: Rational Expressions & Equations**7.3 Adding & Subtracting Rational Expressions**

Recall: When adding or subtracting fractions, we need _____

ex. $\frac{5}{9} + \frac{2}{3}$

$$\frac{5}{6} - \frac{2}{15}$$

Adding & Subtracting Rational Expressions with Common Denominators:

ex. Find each sum or difference. State the non-permissible values.

a) $\frac{2a}{b} - \frac{a-1}{b}$

b) $\frac{2x}{x+4} + \frac{8}{x+4}$

c) $\frac{x^2}{x-2} + \frac{4x}{x-2} - \frac{8}{x-2}$

Adding & Subtracting Rational Expressions with Different Denominators:

ex. Rewrite each pair of rational expressions with common denominators:

a) $\frac{4}{5x}, \frac{y}{x^2}$

b) $\frac{a}{b}, \frac{2a}{b+1}$

c) $\frac{3x}{x^2-9}, \frac{x+2}{x+3}$

ex. Simplify.

a) $\frac{2x}{xy} + \frac{4}{x^2} - 3$

b) $\frac{x^2-20}{x^2-4} + \frac{x-2}{x+2}$

$$\text{c) } \frac{x-1}{x^2-5x-6} - \frac{x-2}{x^2+4x+3}$$

$$\text{d) } \frac{1+\frac{1}{x}}{x-\frac{1}{x}}$$

Practice: pg. 336/ #3, 5abef, 6bcfd, 7ab, 8, 10ac, 12, 13, 15, 16, 18



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