

Rational Expressions Two – Addition and Subtraction

$$1. \frac{5xy}{x^2 - y^2} - \frac{x - y}{x + y}$$

$$2. \frac{3x}{x^2 - 7x + 10} - \frac{2x}{x^2 - 8x + 15}$$

$$3. \frac{x}{x^2 - x - 20} + \frac{2}{x + 4}$$

$$4. \frac{3x + 2}{x^2 + 5x - 24} + \frac{7}{x^2 + 4x - 32}$$

$$5. \frac{1}{x + 1} - \frac{x}{x - 2} + \frac{x^2 + 2}{x^2 - x - 2}$$

$$6. \frac{3x - 1}{x^2 + 2x - 3} - \frac{x - 4}{x^2 - 9}$$

$$7. \frac{4x}{x^2 - 1} + \frac{3x}{1 - x} - \frac{4}{x - 1}$$

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

$$9. \frac{y}{y + 3} + \frac{6y}{y^2 - 9}$$

$$10. \frac{x^2 + 3x + 3}{x^2 + 5x + 6} + \frac{4}{x + 3}$$

$$11. \frac{y^2 + 4y - 5}{y^2 - 2y - 3} - \frac{2}{y + 1}$$

$$12. \frac{2x}{3x - 15} + \frac{20 - 16x}{3x^2 - 12x - 15}$$

$$13. \frac{x}{2x - 2} - \frac{2x + 3}{2x^2 + 6x + 8}$$

$$14. \frac{x}{x + 1} - \frac{2}{x^2 + 2x + 1}$$

$$15. \frac{3}{x^2 - 4x + 4} + \frac{5}{x + 2}$$

$$16. x + 1 - \frac{5}{1 - x}$$

$$17. 3y + 1 + \frac{2}{3y - 1}$$

$$18. \frac{x}{x - y} - \frac{x^2 + y^2}{y^2 - x^2} + \frac{y}{x + y}$$

$$19. \frac{x^2 + y^2}{y^2 - x^2} + \frac{y}{y + x} - \frac{x}{y - x}$$

$$20. \frac{6xy}{x^2 - y^2} - \frac{x + y}{x - y}$$

$$21. \frac{6}{y^2 + 6y + 9} + \frac{5}{y^2 - 9}$$

$$22. \frac{5x}{x^2 - 6x + 8} - \frac{3x}{x^2 - x - 12}$$

$$23. \frac{2}{x + 3} - \frac{x}{x - 1} + \frac{x^2 + 2}{x^2 + 2x - 3}$$

$$24. \frac{3x - 2}{x^2 + 2x - 24} - \frac{x - 3}{x^2 - 16}$$