

## Adding and Subtracting Rational Expressions with Unlike Denominators

$$1. \frac{5}{ab+b^2} + \frac{7}{a^2+ab}$$

$$8. \frac{y}{1-y^2} - \frac{3}{y-1}$$

$$2. \frac{6x}{x^2-3x} - \frac{3}{5x-15}$$

$$9. \frac{2}{x} - \frac{x}{4-x} + \frac{2x+8}{x^2-4x}$$

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

$$10. \frac{9}{x^2+7x+10} + \frac{3}{x+5} - \frac{1}{x+2}$$

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

$$11. \frac{y}{y-1} + \frac{y}{2} - \frac{y+1}{2y-2}$$

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

$$12. \frac{x}{x+2} - \frac{8}{x^2-4}$$

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

$$13. \frac{10x}{x^2-25} + \frac{5}{5-x}$$

$$7. x + \frac{x}{x-1}$$

$$14. \frac{2}{x+3} - \frac{1}{x-3} - \frac{x-9}{x^2-9}$$