

Adding and Subtracting Rational Expression with Like Denominators

Key

Add or Subtract.

$1. \frac{2x-3}{4x-1} + \frac{3x+4}{4x-1}$ $\frac{5x+1}{4x-1}$	$2. \frac{3x-4}{4x+5} + \frac{5x+3}{4x+5}$ $\frac{-2x-7}{4x+5}$	$3. \frac{4x-3}{2x-6} + \frac{+4x+21}{2x-6}$ $\frac{8x-24}{2x-6}$ $\frac{8(x-3)}{2(x-3)} = 4$	$4. \frac{x-3}{6x+7} + \frac{-3x+2}{6x+7}$ $\frac{-2x-5}{6x+7}$
$5. \frac{2x-3}{2x-3} + \frac{6x+1}{2x-3}$ $\frac{8x+2}{2x-3}$	$6. \frac{x-3}{5x-1} + \frac{-x+3}{5x-1}$ $\frac{-6}{5x-1}$	$7. \frac{x-4}{3} + \frac{5x}{3}$ $\frac{6x-4}{3}$	$8. \frac{2x+5}{7} - \frac{x}{7}$ $\frac{x+5}{7}$
$9. \frac{8}{x} + \frac{x+9}{x}$ $\frac{x+17}{x}$	$10. \frac{3x-8}{4x} + \frac{-x+8}{4x}$ $\frac{2x}{4x} = \frac{1}{2}$	$11. \frac{3x-6}{24x} + \frac{3x+6}{24x}$ $\frac{6x}{24x} = \frac{1}{4}$	$12. \frac{2x+3}{x+5} + \frac{-x+8}{x+5}$ $\frac{x+6}{x+5}$
$13. \frac{2x+3}{x+4} + \frac{x+7}{x+4}$ $\frac{x+10}{x+4}$	$14. \frac{8}{3(x+8)} + \frac{4}{3(x+8)}$ $\frac{12}{3(x+8)} = \frac{4}{x+8}$	$15. \frac{3}{2(x-9)} - \frac{9}{2(x-9)}$ $\frac{-6}{2(x-9)} = \frac{-3}{x-9}$	$16. \frac{4x+7}{x+5} + \frac{-x+6}{x+5}$ $\frac{3x+13}{x+5}$
$17. \frac{-2x+1}{x^2-4} + \frac{+3x+1}{x^2-4}$ $\frac{x+2}{x^2-4}$ $\frac{x+2}{(x-2)(x+2)} = \frac{1}{x-2}$	$18. \frac{5x+1}{x^2-64} + \frac{-4x+7}{x^2-64}$ $\frac{x+8}{x^2-64}$ $\frac{x+8}{(x+8)(x-8)} = \frac{1}{x-8}$	$19. \frac{2x^2+7x-3}{x^2+4x-12} + \frac{-2x^2+6x+1}{x^2+4x-12}$ $\frac{x-2}{x^2+4x-12}$ $\frac{x-2}{(x+6)(x-2)} = \frac{1}{x+6}$	$20. \frac{3x-4}{x^2-5x+4} + \frac{3-2x}{x^2-5x+4}$ $\frac{x-1}{x^2-5x+4}$ $\frac{x-1}{(x-4)(x-1)} = \frac{1}{x-4}$
$21. \frac{5x-4}{x^2-6x-7} + \frac{5-4x}{x^2-6x-7}$ $\frac{x+1}{x^2-6x-7}$ $\frac{x+1}{(x-7)(x+1)} = \frac{1}{x-7}$	$22. \frac{3x-8}{x^2-9} + \frac{-2x+5}{x^2-9}$ $\frac{x-3}{x^2-9}$ $\frac{x-3}{(x+3)(x-3)} = \frac{1}{x+3}$	$23. \frac{4x-7}{x^2-25} + \frac{3x+2}{x^2-25}$ $\frac{x-5}{x^2-25}$ $\frac{x-5}{(x+5)(x-5)} = \frac{1}{x+5}$	$24. \frac{x^2+2x}{x^2+3x+2} + \frac{-2x+4}{x^2+3x+2}$ $\frac{x^2-4}{x^2+3x+2}$ $\frac{(x-2)(x+2)}{(x+2)(x+1)} = \frac{x-2}{x+1}$