

ADDING & SUBTRACTING RATIONAL EXPRESSIONS PRACTICE

1. $\frac{x-4}{3} + \frac{5x}{3}$

2. $\frac{2x+5}{7} - \frac{x}{7}$

3. $\frac{8}{x} + \frac{x+9}{x}$

4. $\frac{3x-8}{4x} + \frac{-x+8}{4x}$

5. $\frac{3x-6}{24x} + \frac{3x+6}{24x}$

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

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

8. $\frac{8}{3(x+8)} + \frac{4}{3(x+8)}$

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

10. $\frac{7}{3(x-1)} + \frac{5}{3(x-1)}$

11. $\frac{4x+7}{x+5} - \frac{x-6}{x+5}$

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

13. $\frac{5x+1}{x^2-64} - \frac{4x-7}{x^2-64}$

14. $\frac{2x^2+7x-3}{x^2+4x-12} - \frac{2x^2+6x-1}{x^2+4x-12}$

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

16. $\frac{5x-4}{x^2-6x-7} + \frac{5-4x}{x^2-6x-7}$

17. $\frac{3x-8}{x^2-9} - \frac{2x-5}{x^2-9}$

18. $\frac{4x-7}{x^2-25} - \frac{3x-2}{x^2-25}$

19. $\frac{2}{3x} + \frac{4}{x}$

20. $\frac{6}{x} + \frac{7}{5x^2}$

21. $\frac{3}{x} + \frac{6}{7x^2}$

22. $\frac{4}{x} + \frac{7}{6x^2}$

23. $\frac{6}{5x^3y} - \frac{1}{2x^2y^3}$

24. $\frac{5}{xy} + \frac{7}{2x^2}$

25. $2x + \frac{x}{y}$

26. $\frac{5x-3}{4x} - \frac{1}{6x}$

27. $\frac{7}{3x} - \frac{4}{5x^2}$

28. $\frac{5}{x} + 8$

29. $7 - \frac{4}{x-9}$

30. $\frac{x-1}{x-2} - \frac{x^2+4x-4}{x^2+4x-12}$

31. $\frac{x+2}{x-6} - \frac{x^2+5x+14}{x^2-2x-24}$

32. $\frac{x+2}{x-7} - \frac{x^2+4x+13}{x^2-4x-21}$

33. $\frac{x-4}{x^2+5x+6} + \frac{x-1}{x^2-4}$

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

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

36. $-\frac{x-2}{x^2-2x-8} - \frac{x-1}{x^2-4}$

37. $\frac{x+5}{x^2+3x-4} + \frac{x+2}{x^2-1}$

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

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

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

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

42. $\frac{3}{x^2-7x+6} + \frac{-3}{x^2-9}$

43. $3 + \frac{x}{x+2} - \frac{2}{x^2-4}$

44. $2 + \frac{x}{x-3} - \frac{3}{x^2-9}$

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

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

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

48. $\frac{5x}{1-2x} - \frac{2x}{2x+1} + \frac{3}{4x^2-1}$

49. $\frac{1}{x^2+5x+6} - \frac{2}{x^2+3x+2} + \frac{1}{x^2-3x-4}$

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

PRACTICE ANSWERS

1. $\frac{6x-4}{3}$

2. $\frac{x+5}{7}$

3. $\frac{x+17}{x}$

4. $\frac{1}{2}$

5. $\frac{1}{4}$

6. $\frac{x+6}{x+5}$

7. $\frac{x+10}{x+4}$

8. $\frac{4}{x+8}$

9. $\frac{6}{x-9}$

10. $\frac{4}{x-1}$

11. $\frac{3x+13}{x+5}$

12. $\frac{1}{x-2}$

13. $\frac{1}{x-8}$

14. $\frac{1}{x+6}$

15. $\frac{1}{x-4}$

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

17. $\frac{1}{x+3}$

18. $\frac{1}{x+5}$

19. $\frac{14}{3x}$

20. $\frac{30x+7}{5x^2}$

21. $\frac{21x+6}{7x^2}$

22. $\frac{24x+7}{6x^2}$

23. $\frac{12y^2-5x}{10x^3y^3}$

24. $\frac{10x+7y}{2x^2y}$

25. $\frac{2xy+x}{y}$

26. $\frac{15x-11}{12x}$

27. $\frac{35x-12}{15x^2}$

28. $\frac{8x+5}{x}$

29. $\frac{7x-67}{x-9}$

30. $\frac{1}{x+6}$

31. $\frac{1}{x+4}$

32. $\frac{1}{x+3}$

33. $\frac{2x^2-4x+5}{(x+2)(x-2)(x+3)}$

34. $\frac{13-7x}{(x+1)(x-3)(x+3)}$

35. $\frac{2x^2-2x+11}{(x+2)(x-2)(x+1)}$

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

37. $\frac{2x^2+12x+13}{(x-1)(x+1)(x+4)}$

38. $\frac{-x+9}{(x+3)^2(x-3)}$

39. $\frac{2x^2-13x+7}{(x+3)(x-1)(x-3)}$

40. $\frac{2x^2+7x+10}{(x+6)(x+4)(x-4)}$

41. $\frac{10x-16}{(x-4)(x-1)(x+2)(x-2)}$

42. $\frac{21x-45}{(x-6)(x-1)(x+3)(x-3)}$

43. $\frac{4x^2-2x-14}{(x+2)(x-2)}$

44. $\frac{3x^2-3x-21}{(x+3)(x-3)}$

45. 0

46. $\frac{-x}{(x+3)(x-1)}$

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

48. $\frac{-14x^2-3x+3}{(2x+1)(2x-1)}$

49. $\frac{4x+26}{(x+3)(x+2)(x+1)(x-4)}$

50. $\frac{-6x+42}{(x-3)(x-2)(x+1)(x+3)}$