

More Practice for 5-2 Adding and Subtracting Rational Expressions Worksheet

Directions – Simplify each expression. Show your work!

1. $5 - \frac{6}{9x^3}$	2. $\frac{x+3y}{4x} + \frac{6x}{3}$	3. $\frac{5x}{3x} - \frac{2}{6}$
4. $\frac{4k}{k+4} - \frac{4}{3x-1}$	5. $\frac{2v}{v-1} + \frac{5v+4}{2v-2}$	6. $\frac{3}{n-1} + \frac{6}{4}$
7. $\frac{2p}{p-6} + \frac{2p}{p+3}$	8. $\frac{6n}{3} - \frac{5n-5}{2n+6}$	9. $\frac{5}{15m-15} - \frac{4}{3}$
10. $\frac{4}{6x+18} + \frac{6x}{x+1}$	11. $\frac{2}{b+5} - \frac{2}{b+6}$	12. $\frac{r-6}{r^2-2r-24} + \frac{3}{4}$
13. $\frac{\frac{4}{x} + \frac{1}{4}}{3}$	14. $\frac{\frac{1}{9} + \frac{2}{x}}{\frac{x}{4} + \frac{x}{4}}$	15. $\frac{\frac{x^2}{x-4} + \frac{x}{4}}{\frac{x-4}{16} + \frac{x}{4}}$

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

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

18. $\frac{\frac{4}{5} + \frac{1}{2}}{\frac{2a}{5} - \frac{2}{a^2}}$

19. $\frac{5}{6x^2+46x-16} + \frac{2}{6x^2+57x+72}$

20. $\frac{1}{8x^2-20x-12} + \frac{4}{6x^2+27x+12}$

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

22. $\frac{x^2+x}{x^2-9x+8} + \frac{4}{x-1} - \frac{3}{x-8}$

23. $\frac{\frac{2}{a-1} + \frac{3}{a-4}}{\frac{6}{a^2-5a+4}}$

24. $\frac{\frac{1}{x} + \frac{1}{y}}{\left(\frac{1}{x} - \frac{1}{y}\right)(x+y)}$

25. $\frac{5}{x^2-3x-28} + \frac{7}{2x-14}$

26. $\frac{d-4}{d^2+2d-8} - \frac{d+2}{d^2-16}$

27. $\frac{\frac{3}{2x+3} - \frac{x}{x+1}}{\frac{2x}{x+1} + \frac{5}{2x+3}}$