

Adding and Subtracting Rational Expressions

Homework

Perform the indicated operation. Write answer in simplified form.

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

2. $\frac{7y}{5} - \frac{2y}{5}$

3. $\frac{5z-4}{6} + \frac{5z}{6}$

4. $\frac{5w+4}{3w+2} - \frac{2w+2}{3w+2}$

5. $\frac{3v+7}{4v+6} + \frac{v+9}{4v+6}$

6. $\frac{4(2u+1)}{2u-1} - \frac{2(u+8)}{2u-1}$

7. $\frac{3}{3t-1} + \frac{2}{2t+2}$

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

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

10. $\frac{2}{x+3} + \frac{3}{x^2-3x-18} + \frac{4}{x-6}$

11. $\frac{5}{x^2-4x+3} + \frac{4}{x^2+x-12} - \frac{3}{x^2+3x-4}$

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

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

14. $\frac{6p-2}{4-p} - \frac{p-1}{p-4}$

15. $\frac{8b+4}{3-2b} - \frac{6b+2}{2b-3}$

16. $\frac{3m-2}{16m^2-1} - \frac{6m+5}{8m^2-6m+1}$

17. $\frac{2y-7}{6y^2+y-1} - \frac{y^2-y}{2y^2-y-1}$