

Adding and Subtracting Rational Expressions Assignment

Add or subtract the following rational expressions with the same denominator.

1. $\frac{3}{a} + \frac{6}{a} - \frac{2}{a}$

2. $\frac{4a}{a+b} + \frac{4b}{a+b}$

3. $\frac{x+y}{3} - \frac{x-y}{3}$

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

5. $\frac{6a}{2a+b} + \frac{3b}{2a+b}$

6. $\frac{3z^2}{z^2+z} - \frac{2z^2+1}{z^2+z}$

7. $\frac{5b+13}{3b^2} + \frac{b-4}{3b^2}$

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

9. $\frac{3s+7}{s^2-9} + \frac{s+5}{s^2-9}$

10. $\frac{5t-22}{t^2-5t+6} + \frac{4t-5}{t^2-5t+6}$

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Add or subtract the rational expressions with different denominator.

11. $\frac{4}{9w} - \frac{7}{6w}$

12. $\frac{3v-1}{7v} - \frac{v-2}{14v}$

13. $\frac{4}{5z} - \frac{1}{2z}$

14. $\frac{4}{b} + \frac{4}{b+4}$

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

16. $\frac{4x}{x^2-36} + \frac{2}{x-6}$

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

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

19. $\frac{-2}{2x-6} - \frac{3}{x-3}$

20. $\frac{k+3}{k-2} - \frac{2}{5}$