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# Adding and Subtracting Rational Expressions

**Section I. Simplify the Expression**

1. $\frac{5m}{(m+2)} + \frac{5m}{(m+2)}$

2. $\frac{(j+4)}{7} - \frac{(j-9)}{14}$

3. $\frac{(k-2)}{k^2} + \frac{(k+6)}{4k}$

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

5. $\frac{5}{(y-2)(y+2)} - \frac{9}{(y+2)(y+2)}$

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

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

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

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

10. $\frac{u}{u-3} - 9$

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11. $\frac{2g}{g^2-25}+\frac{3}{g^2+2g-15}$

12. $\frac{2}{p^2-2p-24}-\frac{3p}{p^2-5p-6}$

13. $\frac{3k}{k^2-64}-\frac{k}{k^2-3k-40}$

14. $\frac{y-2}{y^2-2y-8}-\frac{y+4}{y^2+4y+4}$

15. $\frac{x-1}{x^2-11x+24}-\frac{x-2}{x^2-5x-24}$

16. $\frac{x+6}{x^2+3x-10}+\frac{x-8}{x^2+6x+5}$

17. $\frac{1}{6h^2-8h}-\frac{h}{3h^2-7h+4}$

18. $\frac{m+2}{3m^2+11m-4}-\frac{m-1}{3m^2-7m+2}$