

Math 3 Advanced
9.1 Combining Rationals

Find the greatest common denominator for each addition problem.

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

2. $\frac{c-d}{5cd} - \frac{3c+d}{4cd}$

3. $\frac{m-2n}{3m} + \frac{2n-m}{5m}$

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

5. $\frac{p}{p-3q} - \frac{q}{2p+q}$

6. $\frac{c}{2c-d} - \frac{2d}{c+d}$

7. $\frac{5c}{c^2+8cd+12d^2} - \frac{3}{c+6d}$

8. $\frac{1}{y^2+2yz-3z^2} + \frac{y}{y+3z}$

9. $\frac{7}{a+2b} - \frac{2a-3b}{a^2+5ab+6b^2}$

10. $\frac{5}{p-3r} - \frac{3p-2r}{2p^2-rp-6rp+3r^2}$

11. $\frac{2}{r^2+7r+12} + \frac{5}{r^2-4r-21}$

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

13. $\frac{1}{d^2+d-6} - \frac{6}{d^2+11d+24}$

14. $\frac{4}{m^2+7m+10} - \frac{1}{m^2+m-20}$