

## Add and Subtract Rational Expressions

Add or subtract the rational expressions.

$$\frac{s}{3} - \frac{6s+7}{s+6}$$

$$\frac{2h}{6h+8} + \frac{5}{7h+4}$$

$$\frac{g}{g+9} + \frac{8}{7g+5}$$

$$\frac{8c}{3} - \frac{3c+9}{6c+7}$$

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

$$\frac{g}{6} - \frac{6g+2}{g+3}$$

$$\frac{4n}{6} - \frac{7n+9}{6n+2}$$

$$\frac{2y}{3y+8} - \frac{7}{4y+4}$$

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Add or subtract the rational expressions.

$$\begin{aligned}\frac{s}{3} - \frac{6s+7}{s+6} \\ = \frac{s^2 - 21s - 21}{3(s+6)}\end{aligned}$$

$$\begin{aligned}\frac{g}{g+9} + \frac{8}{7g+5} \\ = \frac{7g^2 + 13g + 72}{(g+9)(7g+5)}\end{aligned}$$

$$\begin{aligned}\frac{4b}{6b+3} - \frac{6}{3b+2} \\ = \frac{2(6b^2 - 14b - 9)}{3(2b+1)(3b+2)}\end{aligned}$$

$$\begin{aligned}\frac{4n}{6} - \frac{7n+9}{6n+2} \\ = \frac{12n^2 - 17n - 27}{6(3n+1)}\end{aligned}$$

$$\begin{aligned}\frac{2h}{6h+8} + \frac{5}{7h+4} \\ = \frac{7h^2 + 19h + 20}{(3h+4)(7h+4)}\end{aligned}$$

$$\begin{aligned}\frac{8c}{3} - \frac{3c+9}{6c+7} \\ = \frac{48c^2 + 47c - 27}{3(6c+7)}\end{aligned}$$

$$\begin{aligned}\frac{g}{6} - \frac{6g+2}{g+3} \\ = \frac{g^2 - 33g - 12}{6(g+3)}\end{aligned}$$

$$\begin{aligned}\frac{2y}{3y+8} - \frac{7}{4y+4} \\ = \frac{8y^2 - 13y - 56}{4(4y+8)(y+1)}\end{aligned}$$