

Adding and Subtracting Rational Expressions

Date _____ Period _____

Simplify each expression.

1) $\frac{b+6}{2b+2} + \frac{2}{3}$

2) $\frac{3}{p-6} + \frac{3}{p+2}$

3) $\frac{2k+1}{2k+4} - \frac{6k}{3k}$

4) $2k + \frac{5k}{2k^2 - 4k - 6}$

5) $\frac{4a}{2a^2 + 8a} + \frac{6}{3}$

6) $\frac{6}{3n-5} + \frac{3}{5n+5}$

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Simplify each expression.

1) $\frac{b+6}{2b+2} + \frac{2}{3}$

$$\frac{7b+22}{6(b+1)}$$

2) $\frac{3}{p-6} + \frac{3}{p+2}$

$$\frac{6p-12}{(p-6)(p+2)}$$

3) $\frac{2k+1}{2k+4} - \frac{6k}{3k}$

$$\frac{-2k-7}{2(k+2)}$$

4) $2k + \frac{5k}{2k^2 - 4k - 6}$

$$\frac{4k^3 - 8k^2 - 7k}{2(k-3)(k+1)}$$

5) $\frac{4a}{2a^2 + 8a} + \frac{6}{3}$

$$\frac{2a+10}{a+4}$$

6) $\frac{6}{3n-5} + \frac{3}{5n+5}$

$$\frac{39n+15}{5(3n-5)(n+1)}$$