

Adding and Subtracting Rational Expressions

Date _____ Period _____

Simplify each expression.

1) $\frac{5}{6x+24} - \frac{4x-2}{6x+24}$

2) $\frac{x+5}{27x+36} + \frac{5x}{27x+36}$

3) $\frac{k+2}{3k^2+18k} - \frac{k-3}{3k^2+18k}$

4) $\frac{b-6}{2b^2+10b+12} - \frac{6b}{2b^2+10b+12}$

5) $\frac{p+5}{p^2+5p+6} + \frac{p+2}{p^2+5p+6}$

6) $\frac{4}{6x+36} - \frac{x+6}{6x+36}$

7) $\frac{5x+5}{4x^3+20x^2} - \frac{x+5}{4x^3+20x^2}$

8) $\frac{r-2}{3r-15} - \frac{r+6}{3r-15}$

9) $\frac{x+2}{25x^2-45x+18} + \frac{2}{25x^2-45x+18}$

10) $\frac{r+2}{r^2-r-6} + \frac{r-5}{r^2-r-6}$