

Adding/Subtracting Rational Expressions

Date _____ Period _____

Simplify each expression.

1) $\frac{4}{6u} + \frac{6}{6u^3}$

2) $\frac{3}{4u^2} + \frac{6u}{2v}$

3) $\frac{6}{2y^2} - \frac{3x}{5}$

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

5) $\frac{3n+4}{4n+10} - \frac{n-1}{4n+10}$

6) $\frac{b+6}{5b^2+29b-6} + \frac{6b-5}{5b^2+29b-6}$

7) $\frac{2}{3v} + \frac{5}{3v^2-9v}$

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

9) $\frac{r+3}{3r^2+9r} - \frac{6}{3r}$

10) $\frac{n+3}{15n+9} + \frac{n+4}{3}$

11) $\frac{2}{3} + \frac{5k}{2k^2+16k+30}$

12) $\frac{r-6}{10r^2-46r+24} - \frac{4}{3}$

13) $\frac{4}{k-1} - \frac{6}{6k-12}$

14) $\frac{5}{5x^2+10x} - \frac{8x}{x+8}$