

8.5A

Kuta Software - Infinite Algebra 2

Name _____

Adding/Subtracting Rational Expressions

Date _____ Period _____

Simplify each expression.

$$1) \frac{u-v}{8v} + \frac{6u-3v}{8v} \quad \frac{7u-4v}{8v}$$

$$3) \frac{5}{a^2+3a+2} + \frac{5a+1}{a^2+3a+2} \quad \frac{6+5a}{a^2+3a+2}$$

$$5) \frac{r+6}{3r-6} + \frac{r+1}{3r-6} \quad \frac{2r+7}{3r-6}$$

$$2) \frac{m-3n}{6m^3n} - \frac{m+3n}{6m^3n} \quad \rightarrow \frac{1}{m^3}$$

$$4) \frac{5}{10n^2+16n+6} + \frac{n-6}{10n^2+16n+6} \quad \rightarrow \frac{1+n}{10n^2+16n+6}$$

$$6) \frac{x+2}{2x^2+13x+20} - \frac{x+3}{2x^2+13x+20}$$

$$\rightarrow \frac{1}{2x^2+13x+20}$$