

# 8.5C

Kuta Software - Infinite Algebra 2

Name \_\_\_\_\_

Date \_\_\_\_\_

Period \_\_\_\_\_

## Adding/Subtracting Rational Expressions

Simplify each expression.

7)  $\frac{6}{x-1} - \frac{5x}{4}$

$$\frac{24 - 5x^2 - 5x}{4(x-1)}$$

$$\frac{7x^2 + 22x - 25}{(7x-5)(x+4)}$$

11)  $\frac{7}{3} - \frac{8}{12x-8}$

$$\frac{80 - 84x}{3(12x-8)}$$

$$\frac{3 - 14v^2 + 14v}{2(x)(v^2+v)}$$

22)  $\frac{3}{n-5} - \frac{6}{8n-8}$

$$\frac{18n + 6}{(8n-8)(n-5)}$$

18)  $\frac{3}{b-8} - \frac{7}{b+3}$

$$\frac{-4b + 65}{(b-8)(b+3)}$$

19)  $\frac{3}{x+6} - \frac{7}{x-2}$

$$\frac{-4x - 48}{(x+6)(x-2)}$$

20)  $\frac{4}{x+1} - \frac{2}{x+2}$

$$\frac{2x + 6}{(x+1)(x+2)}$$