

NAME: \_\_\_\_\_

# U4:A3 Rational Equations

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1. Add or subtract

$\frac{7x + 1}{4x} + \frac{3x - 4}{4x}$	$\frac{x^2 + 6x}{x^2 - 25} - \frac{4x - 1}{x^2 - 25}$	$\frac{x^2 - 1}{x + 9} - \frac{8 - 8x}{x + 9}$
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[6]

2. Add or subtract:

$\frac{a}{a + 7} + \frac{2}{(a + 5)}$	$\frac{6x - 19}{x^2 - 3x - 4} - \frac{x - 5}{x - 4}$	$\frac{3x}{x - 9} - \frac{2x}{x - 12}$
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[9]

3. For the following equations (and with help from U4:L7 steps)

- Solve
- Identify non-permissible values
- Verify

Solve

$$\frac{x}{3} + \frac{3}{x} = 2$$

Non-Permissible Values

Verify

Solve

$$\frac{x - 24}{x^2 - 8x} - \frac{5 - x}{x - 8} = \frac{2x + 3}{x}$$

Non-Permissible Values

Verify