

Topic 9.4
Adding and Subtracting Rational Expressions
Homework

Name: _____

Date: _____

Simplify each expression.

1. $8 + \frac{x-2}{x+1}$

2. $\frac{4}{3a} + \frac{7}{4a} - \frac{1}{6a}$

3. $\frac{y}{y+3} + \frac{7}{y-3}$

4. $2x + 4 + \frac{2}{x+4}$

5. $\frac{4}{x+3} - \frac{8}{x^2-9}$

6. $\frac{z}{z^2+2z-3} + \frac{5}{z^2+4z-5}$

7. $\frac{x^2+y^2}{x^2-y^2} - \frac{x}{x+y}$

8. $\frac{x}{x^2+10x+24} - \frac{3-x}{x^2+6x+8}$