

Simplifying Algebraic Fractions (J)

Name: _____

Date: _____

Simplify each expression as a single fraction.

1. $-\frac{6(x+1)}{6} + \frac{2(x-4)}{6}$

2. $\frac{2(x+4)}{2} - \frac{6(x-1)}{8}$

3. $\frac{5x-1}{5} - \frac{3x-7}{3}$

4. $-\frac{5x-1}{4} - \frac{2(x+4)}{2}$

5. $-\frac{x+5}{9} - \frac{2x}{2}$

6. $\frac{9x+1}{5} + \frac{3(2x+3)}{7}$

7. $-\frac{x-6}{7} - \frac{5x-4}{5} - \frac{7x+9}{7}$

8. $-\frac{3(2x+1)}{3} - \frac{x+1}{6} - \frac{x+8}{6}$

9. $-\frac{9x+7}{2} + \frac{5x-4}{3} - \frac{x-6}{3}$

10. $-\frac{9x+4}{3} - \frac{5x+1}{9} + \frac{7(x-1)}{7}$

Simplifying Algebraic Fractions (J) Answers

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Simplify each expression as a single fraction.

1. $-\frac{6(x+1)}{6} + \frac{2(x-4)}{6}$

$$\frac{-2x-7}{3}$$

2. $\frac{2(x+4)}{2} - \frac{6(x-1)}{8}$

$$\frac{x+19}{4}$$

3. $\frac{5x-1}{5} - \frac{3x-7}{3}$

$$\frac{+32}{15}$$

4. $-\frac{5x-1}{4} - \frac{2(x+4)}{2}$

$$\frac{-9x-15}{4}$$

5. $-\frac{x+5}{9} - \frac{2x}{2}$

$$\frac{-10x-5}{9}$$

6. $\frac{9x+1}{5} + \frac{3(2x+3)}{7}$

$$\frac{93x+52}{35}$$

7. $-\frac{x-6}{7} - \frac{5x-4}{5} - \frac{7x+9}{7}$

$$\frac{-75x+13}{35}$$

8. $-\frac{3(2x+1)}{3} - \frac{x+1}{6} - \frac{x+8}{6}$

$$\frac{-14x-15}{6}$$

9. $-\frac{9x+7}{2} + \frac{5x-4}{3} - \frac{x-6}{3}$

$$\frac{-19x-17}{6}$$

10. $-\frac{9x+4}{3} - \frac{5x+1}{9} + \frac{7(x-1)}{7}$

$$\frac{-23x-22}{9}$$