

Simplifying Algebraic Fractions (A)

Name: _____

Date: _____

Simplify each expression as a single fraction.

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

2. $\frac{8x-3}{3} + \frac{x+4}{6}$

3. $\frac{8x}{8} - \frac{2(3x-1)}{4}$

4. $-\frac{2(x+4)}{7} + \frac{2(x+3)}{2}$

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

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

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

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

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

10. $\frac{3(x-1)}{7} - \frac{7x-8}{6} + \frac{8(x-1)}{8}$

Simplifying Algebraic Fractions (A) Answers

Name: _____

Date: _____

Simplify each expression as a single fraction.

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

$$\frac{65x+9}{20}$$

2. $\frac{8x-3}{3} + \frac{x+4}{6}$

$$\frac{17x-2}{6}$$

3. $\frac{8x}{8} - \frac{2(3x-1)}{4}$

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

4. $-\frac{2(x+4)}{7} + \frac{2(x+3)}{2}$

$$\frac{5x+13}{7}$$

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

$$\frac{-10x+2}{7}$$

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

$$\frac{37x+46}{36}$$

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

$$\frac{140x-99}{30}$$

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

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

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

$$\frac{97x-11}{15}$$

10. $\frac{3(x-1)}{7} - \frac{7x-8}{6} + \frac{8(x-1)}{8}$

$$\frac{11x-4}{42}$$