

Name :

Score :

Algebraic Fractions

Simplify the following. Write your answers in lowest terms.

1 $\frac{3x}{7} + \frac{x+3}{7}$

2 $\frac{8x}{3} + \frac{x-3}{12}$

3 $\frac{9x}{8} - \frac{x-5}{16}$

4 $\frac{x+7}{3} + \frac{3x-2}{18}$

5 $\frac{7x}{8} + \frac{3x}{10} - \frac{x}{5}$

6 $\frac{2x}{11} - \frac{5(x-2)}{11}$

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

8 $\frac{4x}{7} - \frac{x-3}{8}$

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Answers.

$$1 \quad \frac{3x}{7} + \frac{x+3}{7}$$

$$= \frac{4x+3}{7}$$

$$2 \quad \frac{8x}{3} + \frac{x-3}{12}$$

$$= \frac{33x-3}{12}$$

$$3 \quad \frac{9x}{8} - \frac{x-5}{16}$$

$$= \frac{19x-5}{16}$$

$$4 \quad \frac{x+7}{3} + \frac{3x-2}{18}$$

$$= \frac{40+9x}{18}$$

$$5 \quad \frac{7x}{8} + \frac{3x}{10} - \frac{x}{5}$$

$$= \frac{17x}{40}$$

$$6 \quad \frac{2x}{11} - \frac{5(x-2)}{11}$$

$$= \frac{10-3x}{11}$$

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

$$= \frac{5}{2x}$$

$$8 \quad \frac{4x}{7} - \frac{x-3}{8}$$

$$= \frac{25x+21}{56}$$