

Name: .....

Date: ..... Score: .....

## Linear Equations Worksheet

Solve the given equations

1  $5 + 3(x - 1) = 5x - 6$

2  $5 - 3(5x + 2) = 4(7 - 3x) + 1$

3  $\frac{3(7x - 1)}{4} - (2x - \frac{1 - x}{2}) = x + \frac{3}{2}$

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

5  $\frac{5x - 1}{2} - \frac{x - 2}{6} = \frac{2x + 4}{3}$

6  $\frac{3}{4}x - 2 = \frac{1}{3}x + 3$

7  $0.12x + \frac{0.5 + x}{2} = \frac{x}{3} + 1.5$

8  $0.5(3q + 87) = 1.5q + 43$

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### Answers

1  $5 + 3(x - 1) = 5x - 6$

$x = 4$

2  $5 - 3(5x + 2) = 4(7 - 3x) + 1$

$x = -10$

3  $\frac{3(7x - 1)}{4} - (2x - \frac{1 - x}{2}) = x + \frac{3}{2}$

$x = 1$

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

$x = \frac{50}{29}$

5  $\frac{5x - 1}{2} - \frac{x - 2}{6} = \frac{2x + 4}{3}$

$x = \frac{9}{10}$

6  $\frac{3}{4}x - 2 = \frac{1}{3}x + 3$

$x = 12$

7  $0.12x + \frac{0.5 + x}{2} = \frac{x}{3} + 1.5$

$x = 4.360$

8  $0.5(3q + 87) = 1.5q + 43$

No Solution