

Equations with Variables on Both Sides

Solve each equation. Check your solutions

① $9x = 5x + 20$

② $3x + 2 = 2x + 3$

③ $7x - 3 = 9x + 4$

④ $4 + 6w = 2w - 8$

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

⑥ $\frac{3}{4}k + 8 = \frac{5}{4}k + 6$

⑦ $x + 6 = \frac{1}{2}x - 1$

⑧ $\frac{1}{3}x + 10 = \frac{2}{3}x - 5$

Answers:

① $x = 5$

② $x = 1$

③ $x = -\frac{7}{2}$

④ $w = -3$

⑤ $x = 20$

⑥ $k = 4$

⑦ $x = -14$

⑧ $x = 45$