

Equations with Variables on Both Sides

Solve. Check.

① $3x - 6 = x + 4$

② $4 - 3n = 2n - 9$

③ $-7x + 2 = 5x - 4$

④ $3 - 9x = 6 - 2x$

⑤ $\frac{1}{2}x + 3 = x + 2$

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

⑦ $1\frac{1}{2}w - 6 = \frac{1}{2}w + 2$

⑧ $2\frac{1}{4}w + 6 = 1\frac{3}{4}w - 1$

⑨ 6 more than twice a number is 8 less than the number. Find the number.

Answers

① $x = 5$

② $n = 13/5$

③ $x = 1/2$

④ $x = -3/7$

⑤ $x = 2$

⑥ $m = 10$

⑦ $w = -8$

⑧ $w = -14$

⑨ $6 + 2x = x - 8$

$x = -14$