

SKILL #4: Solving equations with variables on both sides

DIRECTIONS: Solve each of the following and make sure you show all your work. After you solve each question, make sure you submit your ANSWERS only through Google Classroom.

Solve each equation.

1) $6r + 7 = 13 + 7r$

2) $13 - 4x = 1 - x$

3) $-7x - 3x + 2 = -8x - 8$

4) $-8 - x = x - 4x$

5) $-14 + 6b + 7 - 2b = 1 + 5b$

6) $n + 2 = -14 - n$

7) $n - 3n = 14 - 4n$

8) $7a - 3 = 3 + 6a$

9) $5 + 2x = 2x + 6$

10) $-10 + x + 4 - 5 = 7x - 5$

11) $-8n + 4(1 + 5n) = -6n - 14$

12) $-6n - 20 = -2n + 4(1 - 3n)$

13) $4n - 40 = 7(-2n + 2)$

14) $7(5a - 4) - 1 = 14 - 8a$

15) $-31 - 4x = -5 - 5(1 + 5x)$

16) $38 + 7k = 8(k + 4)$

17) $8x + 4(4x - 3) = 4(6x + 4) - 4$

18) $3(1 - 3x) = 2(-4x + 7)$

19) $4(-8x + 5) = -32x - 26$

20) $-3(x - 1) + 8(x - 3) = 6x + 7 - 5x$