

Solving Equations Using The Addition Property

The Distributive Property

Remove all parenthesis and combine like terms.

1. $4(2a - 3) + a - 4$ 2. $7a + 2b - 3a + 8 - 5b$ 3. $-3(2a - 5) - 4 + a$

4. $4(5x - 2) - 2(3x + 1)$ 5. $-2(a + 4) - 3(a - 3)$ 6. $a - 5a + 2$

Solve and check the following equations.

7. $a + 8.25 = -5$ 8. $a + 7 = -3 + 5$ 9. $-8a - 1\frac{5}{8} + 9a = -5$

10. $3(2a - 5) - 5a = -3$ 11. $8a - 3 - (7a + 1) = -2$ 12. $6a = 5a - 4\frac{2}{3}$

13. $-3(2a - 5) + a = 3(3 - 2a)$ 14. $-3(5 - 2a) = 5(a - 3) - (-6)$

Answers: 1. $9a - 16$ 2. $4a - 3b + 8$ 3. $-5a + 11$ 4. $14x - 10$ 5. $-5a + 1$
6. $-4a + 2$ 7. $a = -13.25$ 8. $a = -5$ 9. $a = -3\frac{3}{8}$ 10. $a = 12$ 11. $a = 2$
12. $a = -4\frac{2}{3}$ 13. $a = -6$ 14. $a = 6$