

HW10: Multi-Step Equations

Make sure to complete homework in correct format, including showing all work on an (organized) separate sheet of paper, an MLA heading, and indications that you have checked your work against the answer key and made corrections.

Solve each equation.

1) $-12x + 4x = -8$

2) $-10 = a + a$

3) $0 = -12p + 12p$

4) $-3 = -13k + 10k$

5) $-12p - 3p = -30$

6) $8 + 3(10x - 14) = -334$

7) $-264 = -8(2a + 7)$

8) $143 = -(12x + 13)$

9) $-6(6m - 12) = 216$

10) $2(5x + 13) - 7 = 159$

11) $-13n + 13 = 13 - 13n$

12) $5n + 11 = -1 + 2n$

13) $12r - 4 = 5r + 7r$

14) $11n - 13 + 2n = -11 + 14n$

15) $8x + 11 = 5x - 1$

16) $-13 - 10n = 1 - 11n$

17) $-6(4x - 1) + 7 = x - 12$

18) $-4(13 + 14n) = -4 - 8n$

19) $11(14 + 14x) = -7 - 7x$

20) $-9p + 9(-8 - p) = -8p - 42$

21) $61 - 8a = 13 + 5(9 - a)$

22) $2(-3 - 5n) = 38 - 6n$

23) How can you tell if an equation has no solution?

24) Ready your notebook for this week's notebook check. Be sure to include the vocabulary diagrams and notes for lessons 1.5 - 1.9. Notes should include examples and a summary. Summaries should be 2-4 complete sentences about the most important part of the lesson, which may be a vocabulary term, an example, an explanation of the steps, or another piece of information given in class. Summaries such as "we solved equations" do not count as explaining the most important part of the lesson and will not receive full points.