Unit 2: Equations

Worksheet 3: Solving Multi-Step Equations   Modeling

Directions: Solve each equation. Show your work, NEATLY & ORGANIZED

1. $4n - 2n = 4$

2. $-12 = 2 + 5v + 2v$

3. $3 = x + 3 - 5x$

4. $x + 3 - 3 = -6$

5. $-12 = 3 - 2k - 3k$

6. $-1 = -3r + 2r$

7. $6 = -3(x + 2)$

8. $-3(4r - 8) = -36$

9. $24 = 6(-x - 3)$

10. $75 = 3(-6n - 5)$

11. $-3(1 + 6r) = 14 - r$

12. $6(6v + 6) - 5 = 1 + 6v$

13. $-4k + 2(5k - 6) = -3k - 39$

14. $-16 + 5n = -7(-6 + 8n) + 3$

15. $10p + 9 - 11 - p = -2(2p + 4) - 3(2p - 2)$

16. $-10n + 3(8 + 8n) = -6(n - 4)$

17. $10(x + 3) - (-9x - 4) = x - 5 + 3$

18. $12(2k + 11) = 12(2k + 12)$

19. $-12(x - 12) = -9(1 + 7x)$

20. $-11 + 10(p + 10) = 4 - 5(2p + 11)$

21. Explain two ways you could solve $20 = 5(-3 + x)$