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HW 1-6**Int 2**

Multi-Step Equations & Inequalities – Special Cases

Unit 1

Solve each equation or inequality. Show your work. Graph the solution set for inequalities.

1. $2n + n + 3(n + 4) = 24$

8. $11n + 26 > 13n$ 

2. $18 - n = 8n$

9. $7d = -42 + d$

3. $38 = 3(x + 2) + 5x$

10. $10n - 22 = 6n - 14$

4. $5 - m < m + 9$ 

11. $4(x + 4) = 4x - 12$

5. $4m + 2(m + 2) = -8$

12. $3x + 1 = 4x + 1$

6. $3(x - 4) = 3x - 12$

13. $3(a + 4) - 8 = 4a - 5$

7. $4n + 2(n + 10) = 62$

14. $6y - 17 = -9 + 8y$

15. $-2(x+4)-9 = -2x-17$

20. $10p-2(3p-6) = 4(3p-6)-8p$

16. $5(x+4)+3x \geq 4x+8$ \longleftrightarrow

21. $12(x+3) = 4(2x+9)+4x$

17. $\frac{1}{2}r + 2\left(\frac{3}{4}r - 1\right) = \frac{1}{4}r + 6$

22. $0.2(x+50) - 6 = 0.4(3x+20)$

18. $-5(3m+6) = -3(4m-2)$

23. Is $m = -22$ the solution for
 $7 - 2(m + 4) = 3m - 16$

19. $-7(k+9) = 9(k-5) - 14k$

24. Is $r = 13$ the solution for
 $4(3r - 4) = 2(7r + 5)$

25. Is $x = \frac{5}{4}$ the solution for
 $3x + 7 = 17 - 5x$