Kerry Ojakian's MTH 28.5 Class Class Assignment #7

Determine whether the given value of the variable is a solution of the given equation.

1. x = 2, of 2x + 6 = 106. x = 4, of 3x + 6 = 5x - 22. x = 4, of 2x - 2 = -57. $x = \frac{2}{3}$, of 3x - 2 = 03. x = (-1), of 2(x + 4) = 3(x + 3)7. $x = \frac{2}{3}$, of 3x - 2 = 04. x = 5, of 4(x - 2) = 4x - 88. $x = -\frac{2}{3}$, of 3x + 2 = -25. x = (-2), of 2x + 6 = 3x + 88. $x = -\frac{2}{3}$, of 3x + 2 = -2

Solve each equation by guessing and checking.

9.
$$y-5=20$$
12. $\frac{x}{2}=50$ 10. $y-5=-20$ 13. $2x = 2x + 1$ 11. $4x = 8$ 14. $x+5 = x+3+2$

Solve the following equations.

15. 2x + 7 = 1524. $\frac{x}{5} + 6 = 9$ 16. 5x - 4 = 1825. $\frac{5x}{2} = 15$ 17. 7x - 5 = 1225. $\frac{5x}{2} = 15$ 18. 6 - 2x = 1426. $\frac{-4x}{3} = -16$ 19. -8 - 7x = -127. $\frac{-2x}{3} = 8$ 20. -5x + 7 = 1227. $\frac{-2x}{3} = 8$ 21. 6x - 5 = 2x - 1328. $\frac{x}{2} - 4 = 7$ 22. 4x + 2 = 2 + x29. $\frac{5x}{3} + 6 = -5$

30. Solve: 3(x+3) = 2x + 15

The solution is the number of NBA championships won by Michael Jordan. How many did he win?

31. Solve the equation: 5.2x - 7 = 2.2x + 8

The solution is the age Jennifer Lopez began dancing and singing lessons. How old was she?

32. Solve: 2x - 3 + 5x = 4 + 4x + 1

3 times the solution is the number of siblings Michael Jackson had. How many siblings did Michael Jackson have?

Solve the following equations.

33.
$$5(x-4) = 18$$

34. $-(x-5) + 4 = 12$
35. $2(x+7) - 4 = 15 - 2(x-3)$
36. $6 - 2(x+3) = 14 - 3(x+1)$
37. $8 - (x+3) = 9 - (x+4)$
38. $-5(x+3) = 4 - 5x$

For each equation determine if it is 1) An identity, i.e. always true, 2) A contradiction, i.e. no solution, or 3) Conditional, i.e. sometimes true and sometimes false.

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39. x = x + 240. x = 4x41. x + 2x + x + 7 = 4x + 742. 5(x-1) + 3 = 5x - 243. -(x-2) + 4 = 7 - x44. 2(x+1) - 1 = 3 - x45. 6x - 2(x + 3) = -(4x + 6)46. 2 - (x + 1) = 5 - 2(x - 1)47. -2(x-2) + 2(x-2) = 1