Solving Equations 4

Solve each of the following equations. Show all working!

1. $2x = -5$

2. $1 + x = -7$

3. $4x + 1 = -3$

4. $2(x - 1) = -4$

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

6. $6(x - 1) = -3$

7. $2t = 3(t - 4)$

8. $-2(a - 1) = -8$

9. $2(1 - w) = w + 5$

10. $\dfrac{3x}{2} = \dfrac{9}{2}$

11. $\dfrac{4x}{3} = \dfrac{5}{2}$

12. $\dfrac{-2x}{7} = \dfrac{3}{7}$

13. $\dfrac{2x}{5} = 10$

14. $\dfrac{-5x}{2} = 15$

15. $\dfrac{2x}{10} = -1$

16. $\dfrac{6}{5x} = 2$

17. $\dfrac{3}{2x} = -6$

18. $\dfrac{7}{-x} = 3$

19. $\dfrac{x + 2}{2} = \dfrac{7}{2}$

20. $\dfrac{4x + 1}{3} = \dfrac{2}{5}$

21. $\dfrac{5 - t}{3} = \dfrac{8}{9}$

22. $\dfrac{a + 4}{3} = \dfrac{a + 1}{2}$

23. $\dfrac{x - 4}{7} = \dfrac{-1}{3}$

24. $\dfrac{3(x + 1)}{8} = \dfrac{x}{3}$

25. $\dfrac{3}{2}x = 9$

26. $\dfrac{4(x - 1)}{3} = 3$

27. $4(x - 1) = \dfrac{3}{2}(x + 3) + \dfrac{3}{2}$

28. $\dfrac{5}{(x - 1)} = \dfrac{3}{2}$

29. $\dfrac{x + 1}{2} + \dfrac{2x + 1}{5} = \dfrac{34}{10}$

30. $\dfrac{1}{7}x + \dfrac{3(x - 1)}{2} = \dfrac{25}{14}$

31. $\dfrac{3}{x + 1} = \dfrac{4}{x}$

32. $\dfrac{4}{x + 2} + \dfrac{3}{x + 2} = 1$

33. $\dfrac{1}{2}(x + 1) + \dfrac{1}{3}(x + 1) = \dfrac{5}{6}$

34. $\dfrac{w - 3}{2} = \dfrac{w}{3}$

35. $\dfrac{s + 7}{2} = -\dfrac{s}{5}$