

CHAPTER 6 - EQUATIONS AND INEQUALITIES

6.1 SOLVING TYPE I EQUATIONS

A. Solve the following showing all steps.

1. $x + 6 = 12$
2. $x - 7 = 8$
3. $\frac{x}{6} = 9$
4. $5x = 30$
5. $x + 10 = 4$
6. $\frac{x}{-3} = -6$
7. $-5x = 20$
8. $\frac{5}{8}x = -9$
9. $4 + x = 13$
10. $x - 8 = -30$
11. $\frac{x}{-3} = -3$
12. $14x = -3$
13. $5x = -76$
14. $7x = \frac{3}{4}$
15. $-7 + x = 13$
16. $x + \frac{1}{2} = \frac{3}{4}$
17. $-9x = -16$
18. $\frac{3}{4}x = 12$
19. $\frac{x}{0.3} = -0.8$
20. $x + 1.6 = -0.07$
21. $x + 6.3 = -14$
22. $\frac{4}{3}x = 7$
23. $0.01x = -0.01$
24. $\frac{x}{1.2} = 5.3$
25. $x - 10 = 0.003$
26. $\frac{7}{3}x = \frac{3}{4}$
27. $x - 9 = -30$
28. $x + 9 = -1.6$

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B. Extra Practice. Solve the following.

1. $4x = 56$
2. $-2x = -15$
3. $x + 0.36 = 9$
4. $\frac{2}{3} + x = 9$
5. $2.4y = 7.2$
6. $z + 72 = 18$
7. $5.3 + m = 7.9$
8. $d + 52 = 62.5$
9. $\frac{6}{7}x = 42$
10. $\frac{x}{7} = 9.2$
11. $-9y = 2.7$
12. $\frac{x}{2} = 1.6$
13. $\frac{1}{2}x = -8$
14. $7x = 8.2$
15. $x + 2.9 = 2.7$