

Section 3.2 – Operations with Addition and Subtraction

Problem Set 3

Simplifying the following expressions.

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

2. $5 + m = 4$

3. $y - 4 = -1$

4. $6y - 2 = 5y$

5. $x - 3 = 12$

6. $y + 3 = 12$

7. $4y + 3 = 5y - 3$

8. $-3 + x = -4$

9. $5x = 4x + 13$

10. $1.4r - .3 = 1.1 + .4r$

11. $7b = 1 + 6b$

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

13. $-3z - \frac{3}{5} = -4z + \frac{1}{4}$

14. $y - \frac{6}{7} = 2y - \frac{2}{3}$

15. $3x + \frac{1}{4} = 2x - 3$

16. $5.1x = 4.1x + 6$

17. $5.4 + x = 2x - 1.8$

18. $3x + x = 2x - 1 + x$

19. $3x + 4 = 2x - 5$

20. $2x - 7 = 1 + 2x - 5$

21. $8x + 5 = 7x + 5$

Write an algebraic equation for the following statements.

30. four times a number is three more than twice the number

31. the sum of twelve and a number is seventeen

32. five times a number plus the number is half the number

33. seven is three more than twice a number