Exercises [A–1]

Solve the following equations:

1. $x + 3 = 5(x - 5)$
2. $2(x + 2) = 3x + x - 6$
3. $6 - 2x - 5x = 2(x + 1) - 5$
4. $z - 2z + 2 = -3z - 5 - 9$
5. $4(y - 3) - 2(y - 10) = 3$
6. $2c + 3 - 3(c - 2) = 2(c - 3)$
7. $x + 2(x + 1) - 5(x - 1) + 3 = 0$
8. $2(x - 2) - (2x + 4) = 2x$
9. $5 - 3(2y - 3) = 6 - 2(y + 1)$
10. $z - 2(z - 2) = 3(2z + 1) + 5z$
11. $216(5x - 1) = 216(3x + 2)$
12. $25(p + 7) - 75 = 125(p - 8)$
13. $.8(12 - x) = .4x$
14. $.03x + .02(500 - x) = 25$

Exercises [A–2]

Solve the following equations:

1. $2y + 7 = 3(y - 2)$
2. $5z - 8 = 6z + 1$
3. $3 - 3b - b = 2b - 5 - 4$
4. $2(x - 2) + 3(x - 1) = 0$
5. $17 - 3(y - 1) = 0$
6. $3(3 - 2y) + y = y - 5(y + 2)$
7. $4(W + 3) - 3(2W - 1) = W$
8. $2(3x + 4) - 3(x - 1) = 4(x + 2)$
9. $3(2y + 5) - 4y = 2(y + 5) - 3(2y - 4)$
10. $2(5x - 4) - 3(x + 6) = 5(x - 1) - x$
11. $18x - 36(x + 9) = 18 + 36(x + 4)$
12. $.03(x - 1.5) = .6$
13. $.06(6 - x) - .02(5 - 2x) = .76$
14. $.08(x + 6) - .1(x - 2) = 0$

Exercises [B]

Solve the following equations:

1. $17(13x - 8) = 12(16x + 11)$
2. $.025x = .03(x - 250)$
3. $x - .4(2.3 + x) = .67$
4. $.035(2x - 5) + .04(2x + 5) = 3.5x$
5. $12x - 2[x - 3(1 - x)] = 10$
6. $5(x - 3) - 2[3x - (4x - 7)] = 4(x + 1)$
7. $2 - 3[11x + 9(8 - x)] = 6[4(x - 1) - 7(x + 2)]$

Exercises [A–1]

1. 7
2. 5
3. 1
4. -8
5. $-2\frac{1}{2}$
6. 5
7. 5
8. -4
9. $2\frac{1}{2}$
10. $\frac{1}{12}$
11. $1\frac{1}{2}$
12. 11
13. 8
14. 1500

Exercises [A–2]

1. 13
2. -9
3. 2
4. $1\frac{2}{5}$
5. $6\frac{2}{3}$
6. 19
7. 5
8. 3
9. $1\frac{1}{6}$
10. 7
11. -9
12. 21.5
13. -25
14. 34

Exercises [B]

1. $9\frac{7}{29}$
2. 1500
3. 2.65
4. $\frac{1}{134}$
5. 1
6. 11
7. $8\frac{5}{6}$