

Rewriting Formulas (A)

Solve for c in terms of the other variables.

1. $a = c + (-10)$

6. $u = c + 5$

11. $c - x = b$

2. $v - c = 10$

7. $z - c = x$

12. $c - (-4) = z$

3. $c - a = b$

8. $u = c - a$

13. $c - z = a$

4. $y = c + x$

9. $b = c - y$

14. $c + u = z$

5. $y = c - 6$

10. $c - x = z$

15. $c + b = x$

Rewriting Formulas (A) Answers

Solve for c in terms of the other variables.

$$\begin{aligned} 1. \quad a &= c + (-10) \\ c &= a - (-10) \end{aligned}$$

$$\begin{aligned} 6. \quad u &= c + 5 \\ c &= u - 5 \end{aligned}$$

$$\begin{aligned} 11. \quad c - x &= b \\ c &= b + x \end{aligned}$$

$$\begin{aligned} 2. \quad v - c &= 10 \\ c &= v - 10 \end{aligned}$$

$$\begin{aligned} 7. \quad z - c &= x \\ c &= z - x \end{aligned}$$

$$\begin{aligned} 12. \quad c - (-4) &= z \\ c &= z + (-4) \end{aligned}$$

$$\begin{aligned} 3. \quad c - a &= b \\ c &= b + a \end{aligned}$$

$$\begin{aligned} 8. \quad u &= c - a \\ c &= u + a \end{aligned}$$

$$\begin{aligned} 13. \quad c - z &= a \\ c &= a + z \end{aligned}$$

$$\begin{aligned} 4. \quad y &= c + x \\ c &= y - x \end{aligned}$$

$$\begin{aligned} 9. \quad b &= c - y \\ c &= b + y \end{aligned}$$

$$\begin{aligned} 14. \quad c + u &= z \\ c &= z - u \end{aligned}$$

$$\begin{aligned} 5. \quad y &= c - 6 \\ c &= y + 6 \end{aligned}$$

$$\begin{aligned} 10. \quad c - x &= z \\ c &= z + x \end{aligned}$$

$$\begin{aligned} 15. \quad c + b &= x \\ c &= x - b \end{aligned}$$

Rewriting Formulas (B)

Solve for c in terms of the other variables.

1. $y - c = -2$

6. $a = c + x$

11. $c + y = v$

2. $x = c + a$

7. $c - a = y$

12. $y = c - 6$

3. $c + z = b$

8. $8 - c = u$

13. $c - v = y$

4. $c + (-9) = v$

9. $8 = c + x$

14. $b = -3 - c$

5. $c - (-4) = b$

10. $c + z = y$

15. $a = x - c$

Rewriting Formulas (B) Answers

Solve for c in terms of the other variables.

$$\begin{aligned} 1. \quad y - c &= -2 \\ c &= y - (-2) \end{aligned}$$

$$\begin{aligned} 6. \quad a &= c + x \\ c &= a - x \end{aligned}$$

$$\begin{aligned} 11. \quad c + y &= v \\ c &= v - y \end{aligned}$$

$$\begin{aligned} 2. \quad x &= c + a \\ c &= x - a \end{aligned}$$

$$\begin{aligned} 7. \quad c - a &= y \\ c &= y + a \end{aligned}$$

$$\begin{aligned} 12. \quad y &= c - 6 \\ c &= y + 6 \end{aligned}$$

$$\begin{aligned} 3. \quad c + z &= b \\ c &= b - z \end{aligned}$$

$$\begin{aligned} 8. \quad 8 - c &= u \\ c &= 8 - u \end{aligned}$$

$$\begin{aligned} 13. \quad c - v &= y \\ c &= y + v \end{aligned}$$

$$\begin{aligned} 4. \quad c + (-9) &= v \\ c &= v - (-9) \end{aligned}$$

$$\begin{aligned} 9. \quad 8 &= c + x \\ c &= 8 - x \end{aligned}$$

$$\begin{aligned} 14. \quad b &= -3 - c \\ c &= -3 - b \end{aligned}$$

$$\begin{aligned} 5. \quad c - (-4) &= b \\ c &= b + (-4) \end{aligned}$$

$$\begin{aligned} 10. \quad c + z &= y \\ c &= y - z \end{aligned}$$

$$\begin{aligned} 15. \quad a &= x - c \\ c &= x - a \end{aligned}$$

Rewriting Formulas (C)

Solve for b in terms of the other variables.

1. $b - c = -2$

6. $b + a = c$

11. $v = b + z$

2. $a = b + u$

7. $a - b = -10$

12. $b + 8 = u$

3. $b + 10 = y$

8. $b + 3 = x$

13. $b + u = x$

4. $2 - b = x$

9. $b + 6 = v$

14. $x = b + y$

5. $10 - b = u$

10. $c - b = 6$

15. $6 = b + u$

Rewriting Formulas (C) Answers

Solve for b in terms of the other variables.

1. $b - c = -2$
 $b = -2 + c$

6. $b + a = c$
 $b = c - a$

11. $v = b + z$
 $b = v - z$

2. $a = b + u$
 $b = a - u$

7. $a - b = -10$
 $b = a - (-10)$

12. $b + 8 = u$
 $b = u - 8$

3. $b + 10 = y$
 $b = y - 10$

8. $b + 3 = x$
 $b = x - 3$

13. $b + u = x$
 $b = x - u$

4. $2 - b = x$
 $b = 2 - x$

9. $b + 6 = v$
 $b = v - 6$

14. $x = b + y$
 $b = x - y$

5. $10 - b = u$
 $b = 10 - u$

10. $c - b = 6$
 $b = c - 6$

15. $6 = b + u$
 $b = 6 - u$

Rewriting Formulas (D)

Solve for y in terms of the other variables.

1. $a = y + 3$

6. $-4 = y + a$

11. $v - y = b$

2. $y + (-4) = z$

7. $a = 7 - y$

12. $y + u = x$

3. $y + x = z$

8. $y + u = -1$

13. $y - 7 = z$

4. $y + (-7) = b$

9. $y + a = z$

14. $y + b = z$

5. $-7 = y - b$

10. $y - c = x$

15. $a = c - y$

Rewriting Formulas (D) Answers

Solve for y in terms of the other variables.

$$\begin{aligned} 1. \quad a &= y + 3 \\ y &= a - 3 \end{aligned}$$

$$\begin{aligned} 6. \quad -4 &= y + a \\ y &= -4 - a \end{aligned}$$

$$\begin{aligned} 11. \quad v - y &= b \\ y &= v - b \end{aligned}$$

$$\begin{aligned} 2. \quad y + (-4) &= z \\ y &= z - (-4) \end{aligned}$$

$$\begin{aligned} 7. \quad a &= 7 - y \\ y &= 7 - a \end{aligned}$$

$$\begin{aligned} 12. \quad y + u &= x \\ y &= x - u \end{aligned}$$

$$\begin{aligned} 3. \quad y + x &= z \\ y &= z - x \end{aligned}$$

$$\begin{aligned} 8. \quad y + u &= -1 \\ y &= -1 - u \end{aligned}$$

$$\begin{aligned} 13. \quad y - 7 &= z \\ y &= z + 7 \end{aligned}$$

$$\begin{aligned} 4. \quad y + (-7) &= b \\ y &= b - (-7) \end{aligned}$$

$$\begin{aligned} 9. \quad y + a &= z \\ y &= z - a \end{aligned}$$

$$\begin{aligned} 14. \quad y + b &= z \\ y &= z - b \end{aligned}$$

$$\begin{aligned} 5. \quad -7 &= y - b \\ y &= -7 + b \end{aligned}$$

$$\begin{aligned} 10. \quad y - c &= x \\ y &= x + c \end{aligned}$$

$$\begin{aligned} 15. \quad a &= c - y \\ y &= c - a \end{aligned}$$

Rewriting Formulas (E)

Solve for x in terms of the other variables.

1. $x + a = -5$

6. $x + 8 = v$

11. $x + c = a$

2. $x + y = 1$

7. $x + z = y$

12. $b = 3 - x$

3. $-3 = x + z$

8. $x + a = u$

13. $b - x = u$

4. $y = x + u$

9. $z = x - (-5)$

14. $1 = x + a$

5. $y = x - u$

10. $u = x + (-10)$

15. $u = x - a$

Rewriting Formulas (E) Answers

Solve for x in terms of the other variables.

$$\begin{aligned} 1. \quad x + a &= -5 \\ x &= -5 - a \end{aligned}$$

$$\begin{aligned} 6. \quad x + 8 &= v \\ x &= v - 8 \end{aligned}$$

$$\begin{aligned} 11. \quad x + c &= a \\ x &= a - c \end{aligned}$$

$$\begin{aligned} 2. \quad x + y &= 1 \\ x &= 1 - y \end{aligned}$$

$$\begin{aligned} 7. \quad x + z &= y \\ x &= y - z \end{aligned}$$

$$\begin{aligned} 12. \quad b &= 3 - x \\ x &= 3 - b \end{aligned}$$

$$\begin{aligned} 3. \quad -3 &= x + z \\ x &= -3 - z \end{aligned}$$

$$\begin{aligned} 8. \quad x + a &= u \\ x &= u - a \end{aligned}$$

$$\begin{aligned} 13. \quad b - x &= u \\ x &= b - u \end{aligned}$$

$$\begin{aligned} 4. \quad y &= x + u \\ x &= y - u \end{aligned}$$

$$\begin{aligned} 9. \quad z &= x - (-5) \\ x &= z + (-5) \end{aligned}$$

$$\begin{aligned} 14. \quad 1 &= x + a \\ x &= 1 - a \end{aligned}$$

$$\begin{aligned} 5. \quad y &= x - u \\ x &= y + u \end{aligned}$$

$$\begin{aligned} 10. \quad u &= x + (-10) \\ x &= u - (-10) \end{aligned}$$

$$\begin{aligned} 15. \quad u &= x - a \\ x &= u + a \end{aligned}$$

Rewriting Formulas (F)

Solve for x in terms of the other variables.

1. $x + b = a$

6. $a = v - x$

11. $x + (-4) = z$

2. $y - x = 5$

7. $x - b = z$

12. $x + z = c$

3. $u = x + a$

8. $x + (-1) = z$

13. $-3 = x + y$

4. $v = x - 2$

9. $z - x = a$

14. $x + (-9) = v$

5. $x - v = c$

10. $x + b = u$

15. $v = x + u$

Rewriting Formulas (F) Answers

Solve for x in terms of the other variables.

1. $x + b = a$
 $x = a - b$

6. $a = v - x$
 $x = v - a$

11. $x + (-4) = z$
 $x = z - (-4)$

2. $y - x = 5$
 $x = y - 5$

7. $x - b = z$
 $x = z + b$

12. $x + z = c$
 $x = c - z$

3. $u = x + a$
 $x = u - a$

8. $x + (-1) = z$
 $x = z - (-1)$

13. $-3 = x + y$
 $x = -3 - y$

4. $v = x - 2$
 $x = v + 2$

9. $z - x = a$
 $x = z - a$

14. $x + (-9) = v$
 $x = v - (-9)$

5. $x - v = c$
 $x = c + v$

10. $x + b = u$
 $x = u - b$

15. $v = x + u$
 $x = v - u$

Rewriting Formulas (G)

Solve for u in terms of the other variables.

1. $a - u = c$

6. $v = u + a$

11. $v - u = x$

2. $9 = b - u$

7. $c - u = z$

12. $y - u = a$

3. $z - u = 10$

8. $u + z = v$

13. $u + 2 = c$

4. $z = 8 - u$

9. $9 = u + v$

14. $a - u = -5$

5. $u + c = 3$

10. $c = u - 2$

15. $u - v = 2$

Rewriting Formulas (G) Answers

Solve for u in terms of the other variables.

1. $a - u = c$
 $u = a - c$

6. $v = u + a$
 $u = v - a$

11. $v - u = x$
 $u = v - x$

2. $9 = b - u$
 $u = b - 9$

7. $c - u = z$
 $u = c - z$

12. $y - u = a$
 $u = y - a$

3. $z - u = 10$
 $u = z - 10$

8. $u + z = v$
 $u = v - z$

13. $u + 2 = c$
 $u = c - 2$

4. $z = 8 - u$
 $u = 8 - z$

9. $9 = u + v$
 $u = 9 - v$

14. $a - u = -5$
 $u = a - (-5)$

5. $u + c = 3$
 $u = 3 - c$

10. $c = u - 2$
 $u = c + 2$

15. $u - v = 2$
 $u = 2 + v$

Rewriting Formulas (H)

Solve for y in terms of the other variables.

1. $y - v = 5$

6. $y + c = 9$

11. $u - y = z$

2. $v = 7 - y$

7. $b = y + x$

12. $z - y = v$

3. $y + x = u$

8. $c = y - x$

13. $z = y + 2$

4. $a - y = z$

9. $y + x = z$

14. $-5 = x - y$

5. $2 = y - u$

10. $-2 = y - v$

15. $y + v = z$

Rewriting Formulas (H) Answers

Solve for y in terms of the other variables.

$$\begin{aligned} 1. \quad y - v &= 5 \\ y &= 5 + v \end{aligned}$$

$$\begin{aligned} 6. \quad y + c &= 9 \\ y &= 9 - c \end{aligned}$$

$$\begin{aligned} 11. \quad u - y &= z \\ y &= u - z \end{aligned}$$

$$\begin{aligned} 2. \quad v &= 7 - y \\ y &= 7 - v \end{aligned}$$

$$\begin{aligned} 7. \quad b &= y + x \\ y &= b - x \end{aligned}$$

$$\begin{aligned} 12. \quad z - y &= v \\ y &= z - v \end{aligned}$$

$$\begin{aligned} 3. \quad y + x &= u \\ y &= u - x \end{aligned}$$

$$\begin{aligned} 8. \quad c &= y - x \\ y &= c + x \end{aligned}$$

$$\begin{aligned} 13. \quad z &= y + 2 \\ y &= z - 2 \end{aligned}$$

$$\begin{aligned} 4. \quad a - y &= z \\ y &= a - z \end{aligned}$$

$$\begin{aligned} 9. \quad y + x &= z \\ y &= z - x \end{aligned}$$

$$\begin{aligned} 14. \quad -5 &= x - y \\ y &= x - (-5) \end{aligned}$$

$$\begin{aligned} 5. \quad 2 &= y - u \\ y &= 2 + u \end{aligned}$$

$$\begin{aligned} 10. \quad -2 &= y - v \\ y &= -2 + v \end{aligned}$$

$$\begin{aligned} 15. \quad y + v &= z \\ y &= z - v \end{aligned}$$

Rewriting Formulas (I)

Solve for b in terms of the other variables.

1. $-4 - b = a$

6. $b + y = a$

11. $b + v = x$

2. $y - b = v$

7. $c - b = u$

12. $b - c = y$

3. $b + x = z$

8. $b + y = -4$

13. $b + a = x$

4. $b - x = v$

9. $u = b + y$

14. $c = -7 - b$

5. $-5 = b + z$

10. $u - b = -5$

15. $b + (-6) = x$

Rewriting Formulas (I) Answers

Solve for b in terms of the other variables.

1. $-4 - b = a$
 $b = -4 - a$

6. $b + y = a$
 $b = a - y$

11. $b + v = x$
 $b = x - v$

2. $y - b = v$
 $b = y - v$

7. $c - b = u$
 $b = c - u$

12. $b - c = y$
 $b = y + c$

3. $b + x = z$
 $b = z - x$

8. $b + y = -4$
 $b = -4 - y$

13. $b + a = x$
 $b = x - a$

4. $b - x = v$
 $b = v + x$

9. $u = b + y$
 $b = u - y$

14. $c = -7 - b$
 $b = -7 - c$

5. $-5 = b + z$
 $b = -5 - z$

10. $u - b = -5$
 $b = u - (-5)$

15. $b + (-6) = x$
 $b = x - (-6)$

Rewriting Formulas (J)

Solve for y in terms of the other variables.

1. $5 = a - y$

6. $6 - y = v$

11. $x = y + b$

2. $y + x = 10$

7. $y - u = b$

12. $y - c = b$

3. $-5 = y + x$

8. $-5 = y + z$

13. $y - b = -2$

4. $y - b = x$

9. $c = y + u$

14. $y + x = v$

5. $u = y - x$

10. $x - y = v$

15. $y + b = c$

Rewriting Formulas (J) Answers

Solve for y in terms of the other variables.

$$\begin{aligned} 1. \quad & 5 = a - y \\ & y = a - 5 \end{aligned}$$

$$\begin{aligned} 6. \quad & 6 - y = v \\ & y = 6 - v \end{aligned}$$

$$\begin{aligned} 11. \quad & x = y + b \\ & y = x - b \end{aligned}$$

$$\begin{aligned} 2. \quad & y + x = 10 \\ & y = 10 - x \end{aligned}$$

$$\begin{aligned} 7. \quad & y - u = b \\ & y = b + u \end{aligned}$$

$$\begin{aligned} 12. \quad & y - c = b \\ & y = b + c \end{aligned}$$

$$\begin{aligned} 3. \quad & -5 = y + x \\ & y = -5 - x \end{aligned}$$

$$\begin{aligned} 8. \quad & -5 = y + z \\ & y = -5 - z \end{aligned}$$

$$\begin{aligned} 13. \quad & y - b = -2 \\ & y = -2 + b \end{aligned}$$

$$\begin{aligned} 4. \quad & y - b = x \\ & y = x + b \end{aligned}$$

$$\begin{aligned} 9. \quad & c = y + u \\ & y = c - u \end{aligned}$$

$$\begin{aligned} 14. \quad & y + x = v \\ & y = v - x \end{aligned}$$

$$\begin{aligned} 5. \quad & u = y - x \\ & y = u + x \end{aligned}$$

$$\begin{aligned} 10. \quad & x - y = v \\ & y = x - v \end{aligned}$$

$$\begin{aligned} 15. \quad & y + b = c \\ & y = c - b \end{aligned}$$