

Algebra Equations 1a - Adding and Subtracting

Short Answer

1. $r + 10 = 27$

2. $9 + r = 34$

3. $m - 22 = 16$

4. $x + 12 = -28$

5. $13 + a = -8$

6. $x - 17 = -11$

7. $5 = a + 10$

8. $18 = 22 + t$

9. $8 = a - 38$

10. $-30 = t + 40$

11. $-13 = 8 + t$

12. $-29 = r - 36$

Algebra Equations 1a - Adding and Subtracting Answer Section

SHORT ANSWER

1. ANS:

$$\begin{array}{r} 17 \\ r + 10 = 27 \\ -10 \quad -10 \\ \hline r = 17 \end{array}$$

2. ANS:

$$\begin{array}{r} 25 \\ 9 + r = 34 \\ -9 \quad -9 \\ \hline r = 25 \end{array}$$

3. ANS:

$$\begin{array}{r} 38 \\ m - 22 = 16 \\ +22 \quad +22 \\ \hline m = 38 \end{array}$$

4. ANS:

$$\begin{array}{r} -40 \\ x + 12 = -28 \\ -12 \quad -12 \\ \hline x = -40 \end{array}$$

5. ANS:

$$\begin{array}{r} -21 \\ 13 + a = -8 \\ -13 \quad -13 \\ \hline a = -21 \end{array}$$

6. ANS:

$$\begin{array}{r} 6 \\ x - 17 = -11 \\ +17 \quad +17 \\ \hline x = 6 \end{array}$$

7. ANS:

$$\begin{array}{r}
 -5 \\
 5 = a + 10 \\
 \hline
 -10 \quad -10 \\
 -5 = a \\
 \\
 a = -5
 \end{array}$$

8. ANS:

$$\begin{array}{r}
 -4 \\
 18 = 22 + t \\
 \hline
 -22 \quad -22 \\
 -4 = t \\
 \\
 t = -4
 \end{array}$$

9. ANS:

$$\begin{array}{r}
 46 \\
 8 = a - 38 \\
 \hline
 +38 \quad +38 \\
 46 = a \\
 \\
 a = 46
 \end{array}$$

10. ANS:

$$\begin{array}{r}
 -70 \\
 -30 = t + 40 \\
 \hline
 -40 \quad -40 \\
 -70 = t \\
 \\
 t = -70
 \end{array}$$

11. ANS:

$$\begin{array}{r}
 -21 \\
 -13 = 8 + t \\
 \hline
 -8 \quad -8 \\
 -21 = t \\
 \\
 t = -21
 \end{array}$$

12. ANS:

7

$$-29 = r - 36$$

$$\begin{array}{r} +36 \qquad +36 \\ \hline 7 = r \end{array}$$

$$r = 7$$