

Answer



$$\begin{aligned}
 1. \quad x - 24 &= 6x + 22 \\
 -24 - 22 &= 6x - x \\
 -46 &= 5x \\
 \mathbf{-9.2} &= \mathbf{x}
 \end{aligned}$$

$$\begin{aligned}
 4. \quad -5 - 5v &= -3v + 8 \\
 -5v + 3v &= 8 + 5 \\
 -2v &= 13 \\
 \mathbf{v} &= \mathbf{-6.5}
 \end{aligned}$$

$$\begin{aligned}
 7. \quad p - 28 &= -4 - p \\
 p + p &= -4 + 28 \\
 2p &= 24 \\
 \mathbf{p} &= \mathbf{12}
 \end{aligned}$$

$$\begin{aligned}
 10. \quad 7 - 3y &= -6 - y \\
 7 + 6 &= -y + 3y \\
 13 &= 2y \\
 \mathbf{6.5} &= \mathbf{y}
 \end{aligned}$$

$$\begin{aligned}
 13. \quad t + 68 &= -50 + 6t \\
 68 + 50 &= 6t - t \\
 118 &= 5t \\
 \mathbf{23.6} &= \mathbf{t}
 \end{aligned}$$

$$\begin{aligned}
 16. \quad 52 + x &= 3x + 12 \\
 52 - 12 &= 3x - x \\
 40 &= 2x \\
 \mathbf{20} &= \mathbf{x}
 \end{aligned}$$

$$\begin{aligned}
 2. \quad a - 46 &= 3 + 9a \\
 -46 - 3 &= 9a - a \\
 -49 &= 8a \\
 \mathbf{-6.125} &= \mathbf{a}
 \end{aligned}$$

$$\begin{aligned}
 5. \quad 7 &= 2d - 4d \\
 7 &= -2d \\
 \mathbf{-3.5} &= \mathbf{d}
 \end{aligned}$$

$$\begin{aligned}
 8. \quad 10e - 12 + 5e &= 30 \\
 15e &= 42 \\
 \mathbf{e} &= \mathbf{2.8}
 \end{aligned}$$

$$\begin{aligned}
 11. \quad 32n + 19 &= 11n + 5 \\
 32n - 11n &= 5 - 19 \\
 21n &= -14 \\
 \mathbf{n} &= \mathbf{-0.66}
 \end{aligned}$$

$$\begin{aligned}
 14. \quad 4f &= 117 - 8f - 130 \\
 4f + 8f &= 117 - 130 \\
 12f &= -13 \\
 \mathbf{-1.08} &= \mathbf{f}
 \end{aligned}$$

$$\begin{aligned}
 17. \quad -16a &= 5 + 2a \\
 -16a - 2a &= 5 \\
 -18a &= 5 \\
 \mathbf{-3.6} &= \mathbf{a}
 \end{aligned}$$

$$\begin{aligned}
 3. \quad -142 + 6r &= 2r \\
 -142 &= 2r - 6r \\
 142 &= 4r \\
 \mathbf{35.5} &= \mathbf{r}
 \end{aligned}$$

$$\begin{aligned}
 6. \quad 18 + 6x &= -15 + 2x \\
 18 + 15 &= 2x - 6x \\
 33 &= 4x \\
 \mathbf{8.25} &= \mathbf{x}
 \end{aligned}$$

$$\begin{aligned}
 9. \quad a - 34 &= 17 - 19a \\
 a + 19a &= 17 + 34 \\
 20a &= 51 \\
 \mathbf{a} &= \mathbf{2.55}
 \end{aligned}$$

$$\begin{aligned}
 12. \quad 7 &= 15x + 2x \\
 7 &= 17x \\
 \mathbf{0.411} &= \mathbf{x}
 \end{aligned}$$

$$\begin{aligned}
 15. \quad a + 2a &= -660 \\
 3a &= -660 \\
 \mathbf{-220} &= \mathbf{a}
 \end{aligned}$$

$$\begin{aligned}
 18. \quad 160 + a &= 4 + 2a \\
 160 - 4 &= 2a - a \\
 \mathbf{156} &= \mathbf{a}
 \end{aligned}$$