Gleichungen

G.Roolfs

- $3 \cdot x + 11 = 32$

- $3 \cdot x + 11 = 32$

- $3 \cdot x + 11 = 32 \quad | \; -11$

- $$\begin{aligned} 3 \cdot x + 11 &= 32 \quad | \ -11 \\ 3 \cdot x &= 21 \quad | \end{aligned}$$

- $$\begin{aligned} 3 \cdot x + 11 &= 32 \quad | \ -11 \\ 3 \cdot x &= 21 \quad | \quad : 3 \end{aligned}$$

- $$\begin{aligned}
3 \cdot x + 11 &= 32 \quad | \; -11 \\
3 \cdot x &= 21 \quad | \quad : 3 \\
x &= 7
\end{aligned}$$

- $$\begin{aligned} 3 \cdot x + 11 &= 32 \quad | \quad -11 \\ 3 \cdot x &= 21 \quad | \quad : 3 \\ x &= 7 \end{aligned}$$

- $$2 \cdot (x+1) + 3 \cdot (x-1) = 39$$

- $$3 \cdot x + 11 = 32 \quad | \; -11$$
  $$3 \cdot x = 21 \quad | \quad : 3$$
  $$x = 7$$

- $$2 \cdot (x + 1) + 3 \cdot (x - 1) = 39$$

- $$3 \cdot x + 11 = 32 \quad | \ -11$$
  $$3 \cdot x = 21 \quad | \quad : 3$$
  $$x = 7$$

- $$2 \cdot (x + 1) + 3 \cdot (x - 1) = 39$$
  $$2 \cdot x + 2 + 3 \cdot x - 3 = 39$$

$$3 \cdot x + 11 = 32 \quad | \quad -11$$
$$3 \cdot x = 21 \quad | \quad : 3$$
$$x = 7$$

$$2 \cdot (x + 1) + 3 \cdot (x - 1) = 39$$
$$2 \cdot x + 2 + 3 \cdot x - 3 = 39$$
$$5 \cdot x - 1 = 39 \quad |$$

- $$\begin{aligned} 3 \cdot x + 11 &= 32 \quad | \quad -11 \\ 3 \cdot x &= 21 \quad | \quad : 3 \\ x &= 7 \end{aligned}$$

- $$\begin{aligned} 2 \cdot (x+1) + 3 \cdot (x-1) &= 39 \\ 2 \cdot x + 2 + 3 \cdot x - 3 &= 39 \\ 5 \cdot x - 1 &= 39 \quad | \quad +1 \end{aligned}$$

- $$3 \cdot x + 11 = 32 \quad | \quad -11$$
  $$3 \cdot x = 21 \quad | \quad : 3$$
  $$x = 7$$

- $$2 \cdot (x + 1) + 3 \cdot (x - 1) = 39$$
  $$2 \cdot x + 2 + 3 \cdot x - 3 = 39$$
  $$5 \cdot x - 1 = 39 \quad | \quad +1$$
  $$5 \cdot x = 40 \quad |$$

- $$3 \cdot x + 11 = 32 \quad | \ -11$$
  $$3 \cdot x = 21 \quad | \quad : 3$$
  $$x = 7$$

- $$2 \cdot (x + 1) + 3 \cdot (x - 1) = 39$$
  $$2 \cdot x + 2 + 3 \cdot x - 3 = 39$$
  $$5 \cdot x - 1 = 39 \quad | \ +1$$
  $$5 \cdot x = 40 \quad | \ : 5$$

- $$3 \cdot x + 11 = 32 \quad | \quad -11$$
  $$3 \cdot x = 21 \quad | \quad : 3$$
  $$x = 7$$

- $$2 \cdot (x + 1) + 3 \cdot (x - 1) = 39$$
  $$2 \cdot x + 2 + 3 \cdot x - 3 = 39$$
  $$5 \cdot x - 1 = 39 \quad | \quad +1$$
  $$5 \cdot x = 40 \quad | \quad : 5$$
  $$x = 8$$

- $$\begin{aligned} 3 \cdot x + 11 &= 32 \quad | \ -11 \\ 3 \cdot x &= 21 \quad | \quad : 3 \\ x &= 7 \end{aligned}$$

- $$\begin{aligned} 2 \cdot (x + 1) + 3 \cdot (x - 1) &= 39 \\ 2 \cdot x + 2 + 3 \cdot x - 3 &= 39 \\ 5 \cdot x - 1 &= 39 \quad | \ +1 \\ 5 \cdot x &= 40 \quad | \ : 5 \\ x &= 8 \end{aligned}$$

- $$12 - (9 - x) = 5$$

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$$12 - 9 + x = 5$$

- $$12 - (9 - x) = 5$$
$$12 - 9 + x = 5$$
$$3 + x = 5 \mid$$

- $$12 - (9 - x) = 5$$
  $$12 - 9 + x = 5$$
  $$3 + x = 5 \mid -3$$

- $$\begin{aligned} 12 - (9 - x) &= 5 \\ 12 - 9 + x &= 5 \\ 3 + x &= 5 \mid -3 \\ x &= 2 \end{aligned}$$

- $$\begin{aligned}
12 - (9 - x) &= 5 \\
12 - 9 + x &= 5 \\
3 + x &= 5 \quad | \quad -3 \\
x &= 2
\end{aligned}$$

- $$2 \cdot (x + 1) + 3 \cdot (x - 1) = 39$$

- $$\begin{aligned} 12 - (9 - x) &= 5 \\ 12 - 9 + x &= 5 \\ 3 + x &= 5 \mid -3 \\ x &= 2 \end{aligned}$$

- $$2 \cdot (x + 1) + 3 \cdot (x - 1) = 39$$

- $$\begin{aligned}
12 - (9 - x) &= 5 \\
12 - 9 + x &= 5 \\
3 + x &= 5 \mid -3 \\
x &= 2
\end{aligned}$$

- $$\begin{aligned}
2 \cdot (x + 1) + 3 \cdot (x - 1) &= 39 \\
2 \cdot x + 2 + 3 \cdot x - 3 &= 39
\end{aligned}$$

- $$\begin{aligned} 12 - (9 - x) &= 5 \\ 12 - 9 + x &= 5 \\ 3 + x &= 5 \quad | \ -3 \\ x &= 2 \end{aligned}$$

- $$\begin{aligned} 2 \cdot (x + 1) + 3 \cdot (x - 1) &= 39 \\ 2 \cdot x + 2 + 3 \cdot x - 3 &= 39 \\ 5 \cdot x - 1 &= 39 \quad | \end{aligned}$$

- $$\begin{aligned}
12 - (9 - x) &= 5 \\
12 - 9 + x &= 5 \\
3 + x &= 5 \quad | \quad -3 \\
x &= 2
\end{aligned}$$

- $$\begin{aligned}
2 \cdot (x + 1) + 3 \cdot (x - 1) &= 39 \\
2 \cdot x + 2 + 3 \cdot x - 3 &= 39 \\
5 \cdot x - 1 &= 39 \quad | \quad +1
\end{aligned}$$

- $$12 - (9 - x) = 5$$
  $$12 - 9 + x = 5$$
  $$3 + x = 5 \mid -3$$
  $$x = 2$$

- $$2 \cdot (x + 1) + 3 \cdot (x - 1) = 39$$
  $$2 \cdot x + 2 + 3 \cdot x - 3 = 39$$
  $$5 \cdot x - 1 = 39 \mid +1$$
  $$5 \cdot x = 40 \mid$$

- $$12 - (9 - x) = 5$$
$$12 - 9 + x = 5$$
$$3 + x = 5 \mid -3$$
$$x = 2$$

- $$2 \cdot (x + 1) + 3 \cdot (x - 1) = 39$$
$$2 \cdot x + 2 + 3 \cdot x - 3 = 39$$
$$5 \cdot x - 1 = 39 \mid +1$$
$$5 \cdot x = 40 \mid : 5$$

- $$\begin{aligned} 12 - (9 - x) &= 5 \\ 12 - 9 + x &= 5 \\ 3 + x &= 5 \mid -3 \\ x &= 2 \end{aligned}$$

- $$\begin{aligned} 2 \cdot (x + 1) + 3 \cdot (x - 1) &= 39 \\ 2 \cdot x + 2 + 3 \cdot x - 3 &= 39 \\ 5 \cdot x - 1 &= 39 \mid +1 \\ 5 \cdot x &= 40 \mid :5 \\ x &= 8 \end{aligned}$$

- $$\begin{aligned} 12 - (9 - x) &= 5 \\ 12 - 9 + x &= 5 \\ 3 + x &= 5 \quad | \; -3 \\ x &= 2 \end{aligned}$$

- $$\begin{aligned} 2 \cdot (x + 1) + 3 \cdot (x - 1) &= 39 \\ 2 \cdot x + 2 + 3 \cdot x - 3 &= 39 \\ 5 \cdot x - 1 &= 39 \quad | \; +1 \\ 5 \cdot x &= 40 \quad | \; :5 \\ x &= 8 \end{aligned}$$

- $18 - 5 \cdot (x + 2) = 3$

- $$18 - 5 \cdot (x + 2) = 3$$

- $$18 - 5 \cdot (x + 2) = 3$$
  $$18 - (5 \cdot x + 10) = 3$$

- $$18 - 5 \cdot (x + 2) = 3$$
  $$18 - (5 \cdot x + 10) = 3$$
  $$18 - 5 \cdot x - 10 = 3$$

-
$$18 - 5 \cdot (x + 2) = 3$$
$$18 - (5 \cdot x + 10) = 3$$
$$18 - 5 \cdot x - 10 = 3$$
$$8 - 5 \cdot x = 3 \mid$$

-
$$18 - 5 \cdot (x + 2) = 3$$
$$18 - (5 \cdot x + 10) = 3$$
$$18 - 5 \cdot x - 10 = 3$$
$$8 - 5 \cdot x = 3 \mid -8$$

- $$18 - 5 \cdot (x + 2) = 3$$
$$18 - (5 \cdot x + 10) = 3$$
$$18 - 5 \cdot x - 10 = 3$$
$$8 - 5 \cdot x = 3 \mid \quad -8$$
$$-5 \cdot x = -5 \mid :$$

-
$$
\begin{aligned}
18 - 5 \cdot (x + 2) &= 3 \\
18 - (5 \cdot x + 10) &= 3 \\
18 - 5 \cdot x - 10 &= 3 \\
8 - 5 \cdot x &= 3 \mid \quad -8 \\
-5 \cdot x &= -5 \mid : (-5)
\end{aligned}
$$

-
$$
\begin{aligned}
18 - 5 \cdot (x + 2) &= 3 \\
18 - (5 \cdot x + 10) &= 3 \\
18 - 5 \cdot x - 10 &= 3 \\
8 - 5 \cdot x &= 3 \mid \quad -8 \\
-5 \cdot x &= -5 \mid : (-5) \\
x &= 1
\end{aligned}
$$

- $$\begin{aligned} 18 - 5 \cdot (x + 2) &= 3 \\ 18 - (5 \cdot x + 10) &= 3 \\ 18 - 5 \cdot x - 10 &= 3 \\ 8 - 5 \cdot x &= 3 \mid -8 \\ -5 \cdot x &= -5 \mid : (-5) \\ x &= 1 \end{aligned}$$

- $$2 \cdot (x + 2) - 3 \cdot (x - 5) = 10$$

- $$18 - 5 \cdot (x + 2) = 3$$
$$18 - (5 \cdot x + 10) = 3$$
$$18 - 5 \cdot x - 10 = 3$$
$$8 - 5 \cdot x = 3 \mid \quad -8$$
$$-5 \cdot x = -5 \mid : (-5)$$
$$x = 1$$

- $$2 \cdot (x + 2) - 3 \cdot (x - 5) = 10$$

- $$\begin{aligned}
18 - 5 \cdot (x + 2) &= 3 \\
18 - (5 \cdot x + 10) &= 3 \\
18 - 5 \cdot x - 10 &= 3 \\
8 - 5 \cdot x &= 3 \mid \quad -8 \\
-5 \cdot x &= -5 \mid : (-5) \\
x &= 1
\end{aligned}$$

- $$\begin{aligned}
2 \cdot (x + 2) - 3 \cdot (x - 5) &= 10 \\
2 \cdot x + 4 - 3 \cdot x + 15 &= 10
\end{aligned}$$

- $$\begin{aligned}
18 - 5 \cdot (x + 2) &= 3 \\
18 - (5 \cdot x + 10) &= 3 \\
18 - 5 \cdot x - 10 &= 3 \\
8 - 5 \cdot x &= 3 \quad | \quad -8 \\
-5 \cdot x &= -5 \quad | : (-5) \\
x &= 1
\end{aligned}$$

- $$\begin{aligned}
2 \cdot (x + 2) - 3 \cdot (x - 5) &= 10 \\
2 \cdot x + 4 - 3 \cdot x + 15 &= 10 \\
-x + 19 &= 10
\end{aligned}$$

- $$\begin{aligned}
18 - 5 \cdot (x + 2) &= 3 \\
18 - (5 \cdot x + 10) &= 3 \\
18 - 5 \cdot x - 10 &= 3 \\
8 - 5 \cdot x &= 3 \quad | \quad -8 \\
-5 \cdot x &= -5 \quad | : (-5) \\
x &= 1
\end{aligned}$$

- $$\begin{aligned}
2 \cdot (x + 2) - 3 \cdot (x - 5) &= 10 \\
2 \cdot x + 4 - 3 \cdot x + 15 &= 10 \\
-x + 19 &= 10 \\
-x &= -9 \quad |
\end{aligned}$$

- $$18 - 5 \cdot (x + 2) = 3$$
$$18 - (5 \cdot x + 10) = 3$$
$$18 - 5 \cdot x - 10 = 3$$
$$8 - 5 \cdot x = 3 \mid -8$$
$$-5 \cdot x = -5 \mid : (-5)$$
$$x = 1$$

- $$2 \cdot (x + 2) - 3 \cdot (x - 5) = 10$$
$$2 \cdot x + 4 - 3 \cdot x + 15 = 10$$
$$-x + 19 = 10$$
$$-x = -9 \mid \cdot (-1)$$

- $$\begin{aligned}
18 - 5 \cdot (x + 2) &= 3 \\
18 - (5 \cdot x + 10) &= 3 \\
18 - 5 \cdot x - 10 &= 3 \\
8 - 5 \cdot x &= 3 \mid \quad -8 \\
-5 \cdot x &= -5 \mid : (-5) \\
x &= 1
\end{aligned}$$

- $$\begin{aligned}
2 \cdot (x + 2) - 3 \cdot (x - 5) &= 10 \\
2 \cdot x + 4 - 3 \cdot x + 15 &= 10 \\
-x + 19 &= 10 \\
-x &= -9 \mid \quad \cdot (-1) \\
x &= 9
\end{aligned}$$

- $$\begin{aligned}
18 - 5 \cdot (x + 2) &= 3 \\
18 - (5 \cdot x + 10) &= 3 \\
18 - 5 \cdot x - 10 &= 3 \\
8 - 5 \cdot x &= 3 \mid \quad -8 \\
-5 \cdot x &= -5 \mid : (-5) \\
x &= 1
\end{aligned}$$

- $$\begin{aligned}
2 \cdot (x + 2) - 3 \cdot (x - 5) &= 10 \\
2 \cdot x + 4 - 3 \cdot x + 15 &= 10 \\
-x + 19 &= 10 \\
-x &= -9 \mid \quad \cdot (-1) \\
x &= 9
\end{aligned}$$