

1.)
$$\begin{array}{rcl} 6x - 6 & = & 2x + 2 \\ \hline 6x & = & 2x + 8 \\ 4x & = & + 8 \\ \hline x & = & \underline{\underline{2}} \end{array}$$

P.: $6 \cdot 2 - 6 = 2 \cdot 2 + 2$

$12 - 6 = 4 + 2$

$6 = 6$ w.A.

2.)
$$\begin{array}{rcl} 8x + 4 & = & 3x - 11 \\ \hline 8x & = & 3x - 15 \\ 5x & = & - 15 \\ \hline x & = & \underline{\underline{-3}} \end{array}$$

P.: $8 \cdot (-3) + 4 = 3 \cdot (-3) - 11$

$-24 + 4 = -9 - 11$

$-20 = -20$ w.A.

3.)
$$\begin{array}{rcl} 2x + 1 & = & 17 - 2x \\ \hline 2x & = & 16 - 2x \\ 4x & = & 16 \\ \hline x & = & \underline{\underline{4}} \end{array}$$

P.: $2 \cdot 4 + 1 = 17 - 2 \cdot 4$

$8 + 1 = 17 - 8$

$9 = 9$ w.A.

4.)
$$\begin{array}{rcl} 3x - 6 & = & 5x - 4 \\ \hline 3x & = & 5x + 2 \\ -2x & = & + 2 \\ \hline x & = & \underline{\underline{-1}} \end{array}$$

P.: $3 \cdot (-1) - 6 = 5 \cdot (-1) - 4$

$-2 - 6 = -5 - 4$

$-9 = -9$ w.A.

5.)
$$\begin{array}{rcl} 8x - 7 & = & 3x + 8 \\ \hline 8x & = & 3x + 15 \\ 5x & = & + 15 \\ \hline x & = & \underline{\underline{3}} \end{array}$$

P.: $8 \cdot 3 - 7 = 3 \cdot 3 + 8$

$24 - 7 = 9 + 8$

$17 = 17$ w.A.

6.)
$$\begin{array}{rcl} 10x + 6 & = & 4x - 18 \\ \hline 10x & = & 4x - 24 \\ 6x & = & - 24 \\ \hline x & = & \underline{\underline{-4}} \end{array}$$

P.: $10 \cdot (-4) + 6 = 4 \cdot (-4) - 18$

$-40 + 6 = -16 - 18$

$-34 = -34$ w.A.

7.)
$$\begin{array}{rcl} 4x - 9 & = & 7x - 3 \\ \hline 4x & = & 7x + 6 \\ -3x & = & + 6 \\ \hline x & = & \underline{\underline{-2}} \end{array}$$

P.: $4 \cdot (-2) - 9 = 7 \cdot (-2) - 3$

$-8 - 9 = -14 - 3$

$-17 = -17$ w.A.