Solve linear equations

29 January 2019 11:37 Recall an expression is made up letters and numbers all seperated by () and () signs. Like terms can add! subtracted. An equation will have an Esign and you will be able to solve the equation to find the value of the variable. Eg1) solve the following to find the value of X. Method () use stablizers () 4x + 2 = 14to keep work in order. $-\frac{1}{2}$ $\frac{4x}{x} = 12$ -2 $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ (2) Bring x parts togther bring constants togetter. 3 Always duride by the coefficient of $4 \times + 2 = 14$ -2 -2 $4 \times = 12$ $4 \times = 4$ Internal - do wark Inside stabilizers. the variable. $\chi = 3$ move values across the equal 4x + 2 = 14 - 2

sign to rearrange, when values move the sign changes.

 $\frac{4x = 12}{4}$ X = 3 Egg) 6x - a = 4x + 10HIWPg 8 Q 4+5

$$\begin{aligned} & \text{(J22)} \quad 5(2x-4)+1 = 3(2x-1) \\ & \text{(IOX} - 20 + 1 = 6x - 3 \\ & \text{(IOX} - 19 = 6x - 3 \\ & \text{(IOX} - 19 = 6x - 3 \\ & -6x \\ & 4x - 14 = -3 \\ & -6x \\ & 4x = 16 \\ & +19 \\ & -4 \\ & -$$

24) 5(x-2) - 3x - 3(x - 5)

$$\frac{5 \times -10 - 3 \times = 3 \times -15}{3 \times -10} = 3 \times -15$$

$$\frac{-2 \times -10}{-10} = -10 = -15 = -15$$

$$\frac{-10}{5} = -15 = -15 = -15$$

$$\frac{-15}{15} = -15 = -15$$

$$\frac{-15}{15} = -15 = -15$$

$$\frac{-15}{15} = -15$$

25)
$$5(2x+3) = 4(2x+1) + 15$$

 $10x + 15 = 8x + 4 + 15$
 $10x + 15 = 8/x + 19$
 $-8x|$ $2x + 15 = 19$
 $-15|$
 $-15|$
 $-2|$ $X = 2|$
 $-2|$ $X = 2|$

 $\begin{array}{c} C/\omega \\ Pg & 8 \\ O26 \rightarrow 33. \end{array}$

26)
$$5(x+3) - 25 = 6(2-x)$$

 $5x + 15 - 25 = 12 - 6x$
 $5x - 10 = 12 - 6/x$
 $+6x | 11x - 10 = 12 | +6/x$
 $+10 | 11x = 22 | +10$
 \vdots
 $7.11 | x = 2. | -11$

HIW Pg 8 Q 27-31.