Linear Equations; ax + b = cx + d

Strategy

5.

7.

9.

Transform equations into ax + b = c format using the Properties of Real Numbers, then use the Order of Operations in reverse using the inverse (opposite) operation to isolate the variable.

First step, identify what is physically different in the problem from the ax + b = c format, then get rid of it.

Salva	Example Solve	7x - 2x $-2x$ $5x - 2$ $5x$ x	$2 = 2x + \frac{-2x}{2} = \frac{-2x}{2}$	+ 38 +38 40 8	⇒	ax + b = c format
Solve	the following problems.					
1.	3x + 5 = 10 + 2x	2.	7x – 5 =	= 4x + 1	1	
3.	10x - 3 = 6x + 21	4.	9x + 6 =	= 2x – 1	15	
5.	5x + 3 = 8x - 27	6.	-2x + 3	b = 6x -	- 43	
7.	-10x - 1 = -4x + 35	8.	2x + 5 =	=5x+2	2	
9.	6x + 17 = 3x + 14	10.	5 – 2x =	= 2x - 7	7	
11.	4x + 3 = -6 + 4x	12.	5x + 1 =	= 2x +	1	
13.	6x - 3 = 7x + 6	14.	8x + 4 =	= 3x – 2	21	