Monday

Warm up

February, 2018

Solve and verify the following equations

1. $\frac{5x}{5} = \frac{25}{5}$

$x = 5$

LS	RS
$5x$	25
$5(5)$	
25	

LS = RS ∴ x = 5

2. $x - 4 = 13$ (+4, +4)

$x = 17$

LS	RS
$x-4$	13
$17-4$	
13	

LS = RS ∴ x = 17

3. $2x - 3 = 12$ (+3, +3)

$\frac{2x}{2} = \frac{15}{2}$

$x = 7.5$

LS	RS
$2x-3$	12
$2(7.5)-3$	
$15-3$	
12	

LS = RS ∴ x = 7.5

New work...

$2(4x + 5) = 18$

$8x + 10 = 18$ (−10, −10)

$\frac{8x}{8} = \frac{8}{8}$

$x = 1$

method II

$\frac{2(4x + 5)}{2} = \frac{18}{2}$

$4x + 5 = 9$ (−5, −5)

$\frac{4x}{4} = \frac{4}{4}$

$x = 1$

try this...

$\frac{3(t-4)}{3} = \frac{8}{3}$

No

$3(t-4) = 8$

$3t - 12 = 8$ (+12 +12)

$\frac{3t}{3} = \frac{20}{3}$

$t = \frac{20}{3}$

Tuesday

Warm Up

$5(x-7) = -15$

$5x - 35 = -15$ (+35 +35)

$\frac{5x}{5} = \frac{20}{5}$

$x = 4$

LS	RS
$5(x-7)$	-15
$5(4-7)$	
$5(-3)$	
-15	LS=RS ∴ x=4

(4) $\frac{1}{4}c - \frac{7}{2} = \frac{1}{2}c + \frac{3}{4}$ (4) (4) (4)

$c - 14 = 2c + 3$ (+14 +14)

$-c \quad -c$

$0 = c + 17$ (−17 −17)

$-17 = c$

LS	RS
$\frac{c}{4} - \frac{7}{2}$	$\frac{c}{2} + \frac{3}{4}$
$-\frac{17}{4} - \frac{14}{4}$	$-\frac{17}{2} + \frac{3}{4}$
$-\frac{31}{4}$	$-\frac{34}{4} + \frac{3}{4}$
	$-\frac{31}{4}$

LS=RS ∴ c=−17

Homework for Wednesday

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