Warm Up

Solve and verify

1. $-2+5x=7$

$+2 \quad +2$

$\frac{5x}{5}=\frac{9}{5}$

$x=\frac{9}{5}$

LS	RS
$-2+5x$	7
$-2+5(\frac{9}{5})$	
$-2+9$	
7	

LS = RS $\therefore x=\frac{9}{5}$

2. $\frac{6}{r}+9=0$

$-9 \quad -9$

$\frac{6}{r}=-9$

$r(\frac{6}{r})=r(-9)$

$6=-9r$

$\frac{6}{-9}=\frac{-9r}{-9}$

$-\frac{2}{3}=r$

LS	RS
$\frac{6}{r}+9$	0
$6\div(-\frac{2}{3})+9$	0
$6\times-\frac{3}{2}+9$	
$-9+9$	
0	

LS = RS $\therefore r=-\frac{2}{3}$

New examples

1. $\frac{3}{4}+2x=6$

$-\frac{3}{4} \quad -\frac{3}{4}$

Method I

$2x=6-\frac{3}{4}$

$2x=\frac{24}{4}-\frac{3}{4}$

$\frac{2}{2}x=\frac{21}{4}\div 2$

$x=\frac{21}{4}\times\frac{1}{2}$

$=\frac{21}{8}$

Method II

$4(\frac{3}{4})+4(2x)=4(6)$

$3+8x=24$

$-3 \quad -3$

$\frac{8x}{8}=\frac{21}{8}$

$x=\frac{21}{8}$

2. (LS) $\frac{x}{3}+\frac{3}{5}=4$ (LCD) (LCD) (LS)

$-9 \quad -9$

$5x+9=60$

$\frac{5x}{5}=\frac{51}{5}$

$x=\frac{51}{5}$

Class / Homework...

Continue working on algebra sheets.