Worksheet 8B

#7) $x > 0$ $x < 0$ $x = 0$

3

no solution

2

true for all x

3

#7) $3+\frac{-3}{4}(5+x)=\frac{3}{5}\left(\frac{5x}{4}-\frac{5}{4}\right)$

$3-\left(\frac{15}{4}-\frac{3}{4}x\right)=$

$3+\frac{-15}{4}+\frac{3}{4}x=\frac{3}{4}x-\frac{3}{4}$

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

$\frac{4}{4}\cdot 3+\frac{-15}{4}=\frac{-3}{4}$

$\frac{12}{4}+\frac{-15}{4}=\frac{-3}{4}$

true for all x!

9) $10\times\left[\frac{2}{5}(a-5)\right]=\left[\frac{3}{10}\left(5+\frac{4}{3}a\right)\right]\times 10$

>0 : 2
<0 : 2
=0 : 2
N.S. : 8
A.T. : 0

$\frac{20}{5}(a-5)=\frac{30}{10}\left(5+\frac{4}{3}a\right)$

$4(a-5)=3\left(5+\frac{4}{3}a\right)=3(5)+\frac{3}{1}\left(\frac{4}{3}a\right)$

$15+\frac{12}{3}a$

$15+4a$

$4a-20=15+4a$

$-4a \quad\quad -4a$

$-20=15$ X NO SOLUTION