Solving Linear Equations

Aug 20-3:44 PM

Ex 4) $6(x+1)+5=13-2+6x$

$6x+6+5=13-2+6x$

$6x+11=6x+11$

$-6x \quad -6x$

$11=11$

Infinate # of Solutions

Aug 23-1:25 PM

Ex 5) $\frac{3}{2}p-2=-\frac{7}{8}$

multiply each term by 8

$\frac{3}{2}p-2=-\frac{7}{8}$ $+2$ $+2$

$\frac{3}{2}p=-\frac{7}{8}+\frac{16}{8}$

$\frac{3}{2}p=\frac{9}{8}$

$p=\frac{9}{8}\cdot\frac{2}{3}=\frac{18}{24}=\frac{3}{4}=0.75$

Aug 23-1:25 PM

$\frac{3}{2}p-2=-\frac{7}{8}$

multiply each term by 8

$(8)\frac{3}{2}p-2(8)=-\frac{7}{8}(8)$

$12p-16=-7$

$12p=-7+16$

$12p=9$

$p=\frac{9}{12}=\frac{3}{4}=0.75$

Jan 23-1:34 PM

Ex 6)

The sum of a number and 9 is multiplied by -2 and the answer is -8. Find the number.

$-2(x+9)=-8$

$-2x-18=-8$

$+18 \quad +18$

$-2x=10$

$\frac{-2x}{-2}=\frac{10}{-2}$

$x=-5$

Aug 23-1:26 PM

Ex. 7) **Solve P = 2L + 2w for w**

Steps:

① put w in one side

$P=2L+2w$

$-2L \quad -2L$

$P-2L=2w$

$\frac{P-2L}{2}=\frac{2w}{2}$

$\frac{P-2L}{2}=w$

Aug 20-11:54 AM