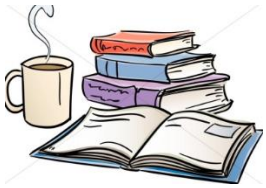
Unit 1. Day 10 Notes

Key

Solving Equations: Special Cases Edition



Warm Up:

a. $3-6(x-5)=5x$

$3-6x+30=5x$

$-6x+33=5x$

$33=11x$

$\boxed{x=3}$

b. $3x+8-5x=14-5x$

$-2x+8=14-5x$

$-8 \quad -8$

$3x=6$

$\boxed{x=2}$

Two more.....hmmmm:

a. $5(z-8)=-40+5z$

$5z-40=-40+5z$

$-40=-40$

b. $2x+7=9+2x$

$+2x \quad +2x$

$7=9$

Sooo... Let's Summarize:

If we end up with a true statement then our answer is all real numbers ∥ 2

And if we end up with a false statement then we have no solution

A few practice problems:

1) $2(k-1)=-\frac{1}{2}(-4k+4)$

$2k-2=2k-2$

$\mathbb{R}$

2) $5(1+4s)=2(3+10s)$

$5+20s=6+20s$

$5=6$

No solution

3) $\frac{x}{2}-5=-7+2$

$\frac{x}{2}-5=-5$

$+5 \quad +5$

$\frac{x}{2}=0$

$\boxed{x=0}$

4) $10-2x-8=8-4x$

$2-2x=8-4x$

$+4x \quad +4x$

$2+2x=8$

$2x=6$

$\boxed{x=3}$