T-A1 Algebra 1 Week 10

Distribute → Combine → Solve

$-6(-3(2k+4)) = 18$

$-6 \quad -6k \quad -12 = 18$

$-6k - 18 = 18$

$+18 \quad +18$

$\frac{-6k}{-6} = \frac{36}{-6}$

$k = -6$

$-4d + 2(3+d) = -14$

$-4d + 6 + 2d = -14$

$-2d + 6 = -14$

$-6 \quad -6$

$\frac{-2d}{-2} = \frac{-20}{-2}$

$d = 10$

(3) $5(b+4) - 6b = -24$

$5b + 20 - 6b = -24$

$-b + 20 = -24$

$-20 \quad -20$

$\frac{-b}{-1} = \frac{-44}{-1}$

$b = 44$

$2(a-3) - 4(5a-8) = 20$

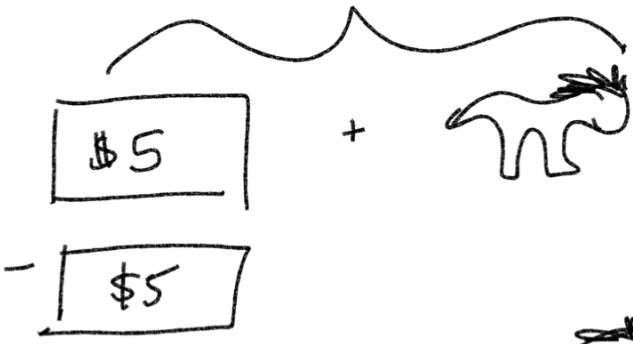
$2a - 6 - 20a + 32 = 20$

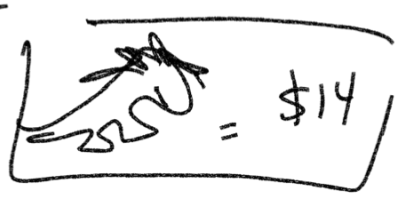
$-18a + 26 = 20$

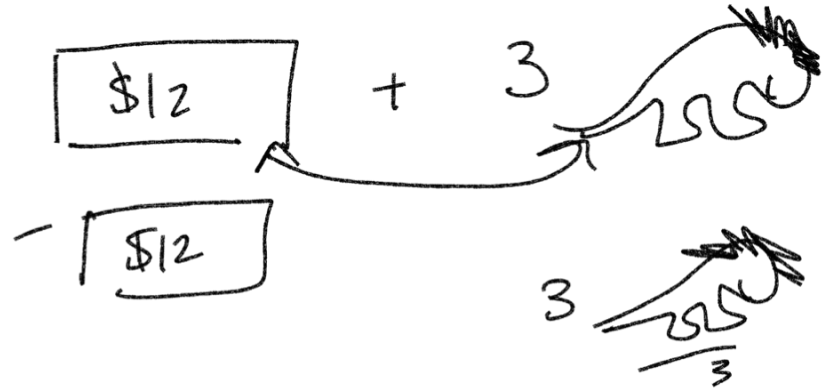
$-26 \quad -26$

$\frac{-18a}{-18} = \frac{-6}{-18}$

$a = \frac{1}{3}$







$2(3x-5)-6x=-10$

$6x-10-6x=-10$

$-10=-10$

identity

all real numbers

"rn"

$2x+3=2x+7$

$-2x \quad -2x$

$3=7$

no solution

$8(2f-3)=4(5f-8)$

$16f-24=20f-32$

$-16f \quad -16f$

$-24=4f-32$

$+32 \quad +32$

$\frac{8}{4}=\frac{4f}{4}$

$2=f$

$f=2$

Distribute

— combine —

solve

variables on one side

constant terms on the other side

$5(r+3) - 2r = 6$

"combine like terms"

↓

racist!!

$5(r+3) = 2r + 6$

$5r + 15 = 2r + 6$

$-2r \quad -2r$

$3r + 15 = 6$

$-15 \quad -15$

$\frac{3r}{3} = \frac{-9}{3}$

$r = -3$

Math: Variable and Constants — make them separate but equal

WHAT?!?!

$7 - 2n = n - 14$

$+2n \quad +2n$

$7 = 3n - 14$

$+14 \quad +14$

$\frac{21}{3} = \frac{3n}{3}$

$7 = n$

$3n - 14 = 7$

$+14 \quad +14$

$2(4-2r) = -2(r+5)$

$8 - 4r = -2r - 10$

$+4r \quad +4r$

$8 = 2r - 10$

$+10 \quad +10$

$\frac{18}{2} = \frac{2r}{2}$

$9 = r$

$r = 9$

HW

Quiz 8 due tonight — Ch 2.4 evens or supplemental ws

Quiz 9 due Nov 17th — Online HW 10 (Thurs)

Quiz 10 (Thurs) due on Nov 24th