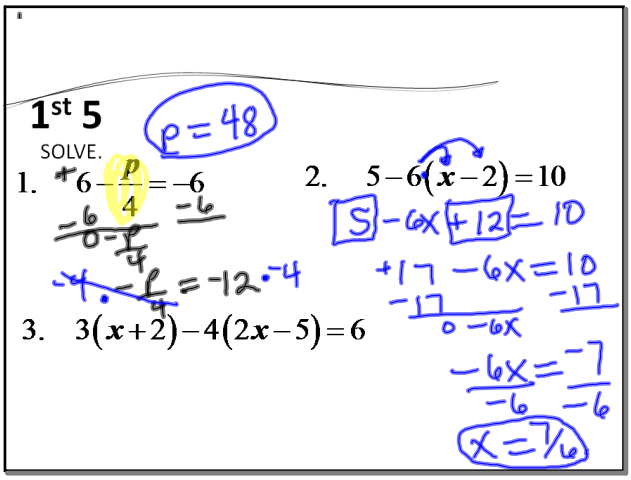
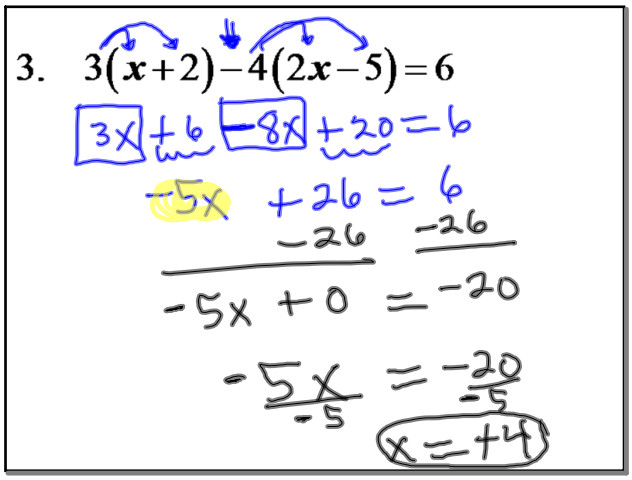
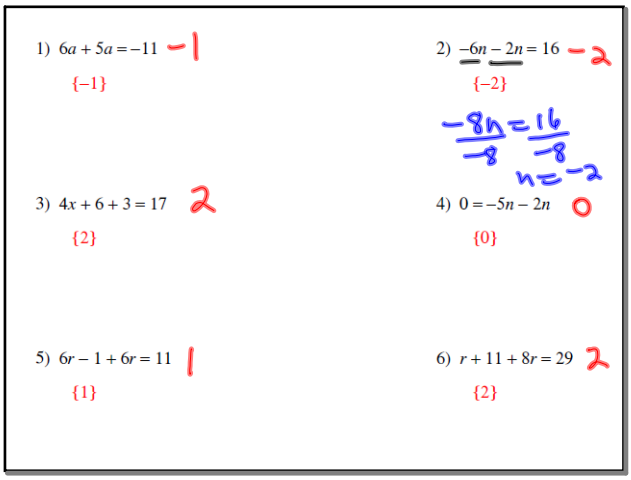


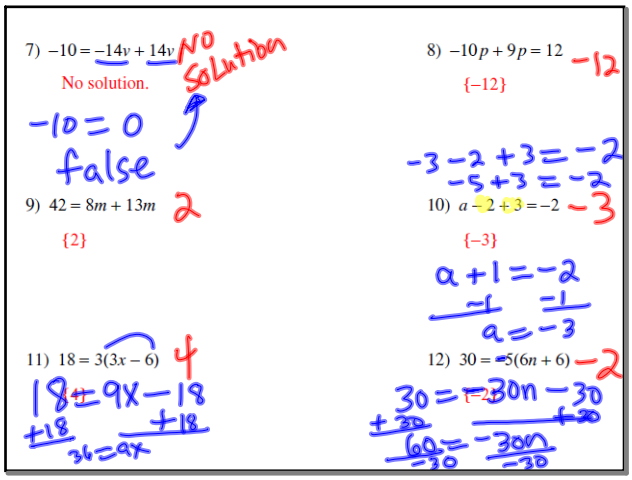
Equations Day 5



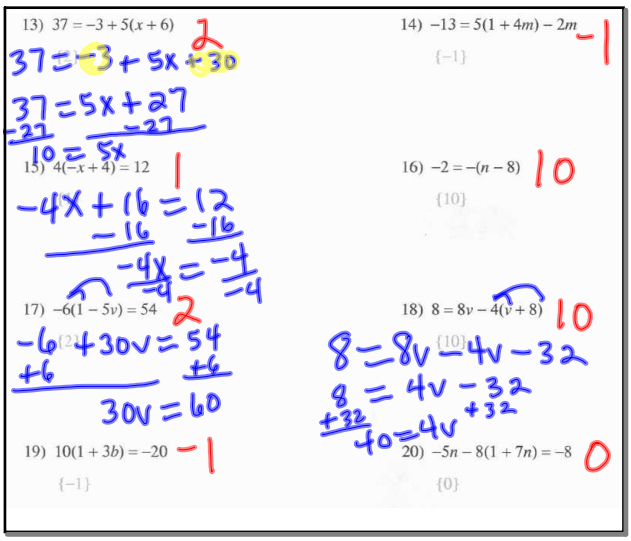
Equations Day 5



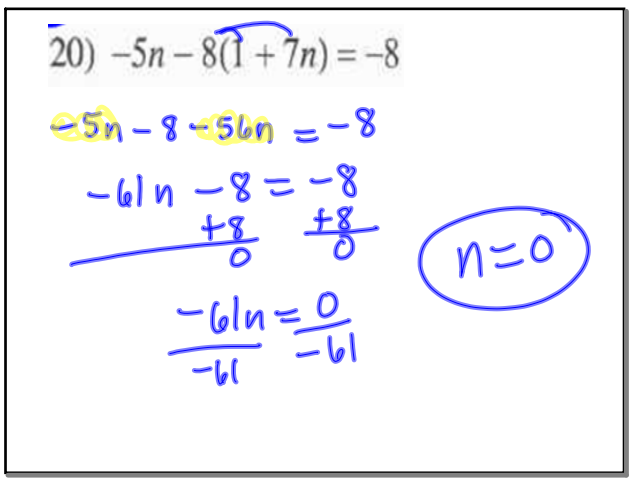
Equations Day 5



Equations Day 5



Equations Day 5



Feb 3-9:31 AM

NOTES

1. simplify each side first

Equations with Variables on Both Sides

2. get variables on the same side

- Solve the equation for the missing variable.
  - $-6d = d + 4$
- Solve the equation for the missing variable.
  - $2(c - 6) = 9c + 2$

$-d \quad -d$

$0 + 4$

$-7d = 4$

$-7 \quad -7$

$d = -\frac{4}{7}$

$2c - 12 = 9c + 2$

$-2c \quad -2c$

$0 - 12 = 7c + 2$

$-12 = 7c + 2$

$-2 \quad -2$

$-14 = 7c$

$-2 = c$

Equations Day 5

1. simplify each side

Equations with Variables on Both Sides

2. move variables to same side

- Solve each equation for the missing variable.
  - $m - 5 = 3m$
- Solve each equation for the missing variable.
  - $7k - 4 = 5k + 16$

$-m \quad -m$

0

$-5 = 2m$

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

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

$-5k \quad -5k$

$2k - 4 = 16$

$+4 \quad +4$

$\frac{2k}{2} = \frac{20}{2}$

$k = 10$

Equations Day 5

Practice Problems

1. $6x - 2 = x + 13$

$-x \quad -x$

$5x - 2 = 13$

$+2 \quad +2$

$\frac{5x}{5} = \frac{15}{5}$

$x = 3$

2. $5y - 3 = 2y + 12$

$-2y \quad -2y$

$3y - 3 = 12$

$+3 \quad +3$

$\frac{3y}{3} = \frac{15}{3}$

$y = 5$

3. $4p - 10 = p + 3p - 2p$

$4p - 10 = 2p$

$-4p \quad -4p$

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

$5 = p$

Equations Day 5

4. $2x + 3(x + 15) = 225 - x$

$2x + 3x + 45 = 225 - x$

$5x + 45 = 225 - x$

$+x \quad +x$

$6x + 45 = 225$

$-45 \quad -45$

$\frac{6x}{6} = \frac{180}{6}$

$x = 30$

Equations Day 5

PW 20

- Workbook pg. 26 # 1 – 13, 15, 17, 20, 22 – 25, 28, 30, 32, 33

Equations Day 5