Algebra 1        6.3
Solve systems of equations by elimination
system of equations
solve
substitution method
zero pair
additive inverse
addition property of equality
whiteboards

Whiteboards

**2.** $8x + 5y = 38$
$-8x + 2y = 4$

$-8 \cdot 1 + 2 \cdot 6 = 4$
$-8 + 12 = 4$

$\dfrac{7y}{7} = \dfrac{42}{7}$

$y = 6$

$( \quad 1 \quad , 6 ) \; \smile$

$8x + 5 \cdot 6 = 38$

$8x + 30 = 38$

$\quad\quad -30 \quad -30$

$\dfrac{8x}{8} = \dfrac{8}{8}$

$x = 1$

**8.** $y + z = 4$

$y - z = 8$

$(6, -2)$

$$\frac{2y}{2} = \frac{12}{2}$$

$$y = 6$$

$6 + z = 4$

$-6 \qquad -6$

$z = -2$

$6 - {-2} = 8$

$6 + 2 = 8$

$(f, g)$

$7f + 3g = -6$

$\times \quad 7f - 2g = -31 \quad \overset{-1}{\longrightarrow} \quad$

$7f + 3g = -6$

$-7f + 2g = 31$

$\text{1)} \quad (-3, 5)$

$5g = 25$

$\dfrac{5g}{5} \quad \dfrac{25}{5}$

$g = 5$

$7 \cdot f + 3 \cdot 5 = -6$

$7f + 15 = -6$

$\quad -15 \quad -15$

$\dfrac{7f}{7} = \dfrac{-21}{7} \quad f = -3$

$7 \cdot -3 - 2 \cdot 5 = -31$

$-21 - 10 = -31$

**4.** $6a - 3b = 27$
  $2a - 3b = 11$

Ice ws 1-12 due today
  p. 353 13-26 due Thurs.

ICE WS due today