

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

$$2. \quad 8x + 5y = 38$$

$$-8x + 2y = 4$$

$$\begin{array}{r} -8 \cdot 1 + 2 \cdot 6 = 4 \\ \hline -8 + 12 = 4 \\ \hline 4y = 4 \\ \hline \frac{4y}{4} = \frac{4}{4} \\ y = 1 \end{array}$$

$$y = 1$$

$$(1, 6) \text{ ④}$$

$$8x + 5 \cdot 6 = 38$$

$$\begin{array}{r} 8x + 30 = 38 \\ -30 -30 \\ \hline 8x = 8 \end{array}$$

$$\begin{array}{r} 8x = 8 \\ \hline x = 1 \end{array}$$

$$8. \begin{array}{l} y + z = 4 \\ y - z = 8 \end{array}$$

(6, -2)

$$\begin{array}{r} \frac{\partial y = 12}{\partial} \\ \hline y = 6 \end{array} \quad \begin{array}{r} 6 + z = 4 \\ -6 \\ \hline z = -2 \end{array}$$

$$\begin{array}{r} 6 - (-2) = 8 \\ 6 + 2 = 8 \end{array}$$

$$\begin{array}{l}
 \text{(f, g)} \\
 \text{* } 7f + 3g = -6 \\
 \text{x } 7f - 2g = -31 \\
 \text{II } (-3, 5) \\
 \\ 
 \cancel{\begin{array}{r}
 7f + 3g = -6 \\
 -7f + 2g = -31 \\
 \hline
 5g = 25
 \end{array}}
 \end{array}$$

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

$$g = 5$$

$$7f + 15 = -6$$

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

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

$$-21 - 10 = -31$$

$$4. \ 6a - 3b = 27$$

$$2a - 3b = 11$$

ice ws L12 due today  
p. 353 13-26 due Thurs.

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ICE WS due today