

HW: 6.4/8-18 even

Warm up:

Solve.

$$-5x + 4y = -7$$

$$+ (5x + 3y = 21)$$

$$\begin{array}{l} x = 3 \\ y = 2 \end{array}$$

$$\begin{array}{r} 7y = 14 \\ \hline y = 2 \end{array}$$

$$\begin{array}{r} 5x + 6 = 21 \\ \hline -6 \quad -6 \\ \hline 5x = 15 \\ \hline \frac{5x}{5} = \frac{15}{5} \\ \hline x = 3 \end{array}$$

$$3(4y + z) = (-10) \quad 3$$

$$5y - 3z = -4$$

$$\begin{array}{r} -8 + z = -10 \\ +8 \quad +8 \\ \hline z = -2 \end{array}$$

$$\begin{array}{r} 12y + 3z = -30 \\ + (5y - 3z = -4) \\ \hline \end{array}$$

$$\begin{array}{r} 17y = -34 \\ \frac{17}{17} \quad \frac{17}{17} \\ \hline y = -2 \end{array}$$

$$\begin{array}{l} y = -2 \\ z = -2 \end{array}$$

$$3p + 10q = -12$$

$$5(5p + 2q) = (-20) \cdot 5$$

$$3p + 10q = -12$$

$$-(25p + 10q = -100)$$

---


$$\frac{-22p}{-22} = \frac{88}{-22}$$

$$p = -4$$

$$\begin{array}{r} -12 + 10q = -12 \\ +12 \quad +12 \\ \hline 10q = 0 \\ \frac{10q}{10} = \frac{0}{10} \\ q = 0 \end{array}$$

$$-12 + (+100)$$

$$\begin{array}{l} p = -4 \\ q = 0 \end{array}$$

$$5(6m - 5n) = (7)5$$

$$6(5m - 6n) = (4)6$$

$$\begin{array}{r} 30m - 25n = 35 \\ - (30m - 36n = 24) \end{array}$$

$$\begin{array}{r} \underline{11n = 11} \\ \underline{11 \quad 11} \\ h = 1 \end{array}$$

$$\begin{array}{r} 6m - 5 = 7 \\ + 5 \quad 15 \\ \hline 6m = 12 \\ \underline{6 \quad 6} \\ m = 2 \end{array}$$

$$\begin{array}{l} m = 2 \\ n = 1 \end{array}$$

$$3(4a + 3b) = (12)3$$

$$4(3a + 8b) = (9)4$$

$$12a + 9b = 36$$

$$-(12a + 32b = 36)$$

$$-23b = 0$$

$$-23 \quad -23$$

$$b = 0$$

$$\frac{4a = 12}{\frac{4}{4} \quad \frac{4}{4}}$$

$$a = 3$$

$$a = 3$$

$$b = 0$$

## HW Solutions

$$\begin{array}{r} \textcircled{7} \quad -v + w = 7 \\ + (v + w = 1) \\ \hline 2w = 8 \\ \frac{2}{2} \quad \frac{8}{2} \\ \hline w = 4 \end{array}$$

$$\begin{array}{r} v + 4 = 1 \\ -4 \quad -4 \\ \hline v = -3 \end{array}$$

$v = -3$   
 $w = 4$

$$\begin{array}{r} \textcircled{5} \quad \cancel{y} + z = 4 \\ - (\cancel{y} - z = 8) \\ \hline 2z = -4 \\ \frac{2z}{2} = \frac{-4}{2} \\ z = -2 \end{array}$$

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

$$\begin{array}{l} y = 6 \\ z = -2 \end{array}$$

$$\begin{array}{r}
 \textcircled{\text{II}} \quad a + 4b = -4 \quad -4 + (+16) \\
 - (a + 10b = -16) \\
 \hline
 -6b = 12 \\
 \frac{-6}{-6} \quad \frac{12}{-6} \\
 \hline
 b = -2
 \end{array}$$
  

$$\begin{array}{r}
 a - 8 = -4 \\
 + 8 \quad + 8 \\
 \hline
 a = 4
 \end{array}$$
  

$$\begin{array}{l}
 a = 4 \\
 b = -2
 \end{array}$$



⑬

$$\begin{array}{r} 6c - 9d = 111 \\ - (5c - 9d = 103) \\ \hline \end{array}$$

$$c = 8$$

$$\begin{array}{r} 40 - 9d = 103 \\ -40 \\ \hline -9d = 63 \\ \frac{-9}{-9} \quad \frac{-9}{-9} \\ \hline d = -7 \end{array}$$

$$\begin{array}{l} c = 8 \\ d = -7 \end{array}$$

## 6.4/7-15 odd

⑦

$$\begin{aligned}x &= -1 \\y &= 3\end{aligned}$$

⑬

$$\begin{aligned}x &= 3 \\y &= 5\end{aligned}$$

⑨

$$\begin{aligned}x &= -3 \\y &= 4\end{aligned}$$

⑮

$$\begin{aligned}x &= 1 \\y &= -5\end{aligned}$$

⑪

$$\begin{aligned}x &= -2 \\y &= 3\end{aligned}$$

$$\textcircled{15} \quad \begin{aligned} 2(8x + 3y) &= (-7)2 \\ 3(7x + 2y) &= (-3)3 \end{aligned}$$

$$\begin{aligned} 16x + 6y &= -14 \\ - (21x + 6y) &= -9 \\ \hline -5x &= -5 \\ \frac{-5x}{-5} &= \frac{-5}{-5} \quad x = \textcircled{1} \end{aligned}$$

$$\begin{aligned} 7 + 2y &= -3 \\ -7 & \\ \hline 2y &= -10 \\ \frac{2y}{2} &= \frac{-10}{2} \\ y &= -5 \end{aligned}$$

$$\begin{aligned} x &= 1 \\ y &= -5 \end{aligned}$$

