Name: _____ Date: _____

Hour: _____ Assignment: ____

Sequencing: Solving Systems of Equations by Elimination (Addition)

Put in order the given steps used to solve the system.

$$\boldsymbol{7x + 3y = 21} \qquad \boldsymbol{-7x + y = 15}$$

Show	Step
$7x + 3y = 21$ $-7x + y = 15$	Line up the x and y terms
$7x + 3y = 21$ $-7x + y = 15$ + _____ $0x + 4y = 36$	Add the two equations together
$\frac{4}{4}y = \frac{36}{4}$ $y = 9$	Divide by 4
$-7x + 9 = 15$ $-7x = 6$ $-7x = 6$ $x = \frac{-6}{7}$	Plug in 9 for y and solve for x
$7x + 3y = 21$ $\quad -7x + y = 15$ $7\left(\frac{-6}{7}\right) + 3(9) = 21$ $\quad -7\left(\frac{-6}{7}\right) + 9 = 15$ $-6 + 27 = 21$ $\quad 6 + 9 = 15$ $21 = 21$ $\quad 15 = 15$ $\left(\frac{-6}{7}, 9\right)$	Check your answer

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$$\mathbf{7x + 3y = 21} \qquad \mathbf{-7x + y = 15}$$

Show	Step
$7x + 3y = 21$ $-7x + y = 15$	
$7x + 3y = 21$ $-7x + y = 15$ + _____ $0x + 4y = 36$	
$\frac{4}{4}y = \frac{36}{4}$ $y = 9$	
$-7x + 9 = 15$ $-7x = 6$ $-7x = 6$ $x = \frac{-6}{7}$	
$7x + 3y = 21$ $\qquad$ $-7x + y = 15$ $7\left(\frac{-6}{7}\right) + 3(9) = 21$ $\qquad$ $-7\left(\frac{-6}{7}\right) + 9 = 15$ $-6 + 27 = 21$ $\qquad$ $6 + 9 = 15$ $21 = 21$ $\qquad$ $15 = 15$ $\left(\frac{-6}{7}, 9\right)$	

Line up the x and y terms	Plug in 9 for y and solve for x
Check your answer	Add the two equations together
Divide by 4	

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Sequencing: Solving Systems of Equations by Elimination (Addition)

Put in order the given steps used to solve the system.

$$-4x + 2y = 8 \qquad 4x + y = 1$$

Show	Step
$-4x + 2y = 8$ $4x + y = 1$	Line up the x and y terms
$-4x + 2y = 8$ $4x + y = 1$ + _____ $0x + 3y = 9$	Add the two equations together
$\frac{3}{3}y = \frac{9}{3}$ $y = 3$	Divide by 3
$4x + 3 = 1$ $\frac{4}{4}x = \frac{-2}{4}4x = -2$ $x = \frac{-1}{2}$	Plug in 3 for y and solve for x
$4x + y = 1$ $\quad -4x + 2(3) = 8$ $4\left(\frac{-1}{2}\right) + (3) = 1 \quad -4\left(\frac{-1}{2}\right) + 6 = 8$ $-2 + 3 = 1 \quad 2 + 6 = 8$ $1 = 1 \quad 8 = 8$ $\left(\frac{-1}{2}, 3\right)$	Check your answer

Name: _____ Date: _____

Hour: _____ Assignment: ____

Sequencing: Solving Systems of Equations by Elimination (Addition)

Put in order the given steps used to solve the system.

$$-4x + 2y = 8 \qquad 4x + y = 1$$

Show	Step
	Line up the x and y terms
	Add the two equations together
	Divide by 3
	Plug in 3 for y and solve for x
	Check your answer

$-4x + 2y = 8$ $4x + y = 1$	$-4x + 2y = 8$ $4x + y = 1$ $+$ _____ $0x + 3y = 9$
$4x + 3 = 1$ $\frac{4}{4}x = \frac{-2}{4}4x = -2$ $x = \frac{-1}{2}$	$4x + y = 1$ $\quad -4x + 2(3) = 8$ $4\left(\frac{-1}{2}\right) + (3) = 1 \quad -4\left(\frac{-1}{2}\right) + 6 = 8$ $-2 + 3 = 1 \quad 2 + 6 = 8$ $1 = 1 \quad 8 = 8$ $\left(\frac{-1}{2}, 3\right)$
$\frac{3}{3}y = \frac{9}{3}$ $y = 3$	

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Hour: _____ Assignment: ____

Sequencing: Solving Systems of Equations by Elimination (Addition)

Put in order the given steps used to solve the system.

$$\boldsymbol{x + 2y = 6} \qquad \boldsymbol{4x - 2y = 14}$$

Show	Step
$\boldsymbol{x + 2y = 6}$ $\boldsymbol{4x - 2y = 14}$	Line up the x and y terms
$\boldsymbol{x + 2y = 6}$ $\boldsymbol{4x - 2y = 14}$ + _____ $5x + 0y = 20$	Add the two equations together
$\frac{5}{5}x = \frac{20}{5}$ $x = 4$	Divide by 5
$\boldsymbol{4 + 2y = 6}$ $2y = 2$ $\frac{2}{2}y = \frac{2}{2}$ $y = 1$	Plug in 4 for x and solve for y
$\boldsymbol{x + 2y = 6}$ $\qquad$ $\boldsymbol{4x - 2y = 14}$ $\boldsymbol{4 + 2(1) = 6}$ $\qquad$ $\boldsymbol{4(4) - 2(1) = 14}$ $4 + 2 = 6$ $\qquad$ $16 - 2 = 14$ $6 = 6$ $\qquad$ $14 = 14$ $(4,1)$	Check your answer

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Sequencing: Solving Systems of Equations by Elimination (Addition)

Put in order the given steps used to solve the system.

$$x + 2y = 6 \qquad 4x - 2y = 14$$

Show	Step

Check your answer	$\boldsymbol{x + 2y = 6}$ $\boldsymbol{4x - 2y = 14}$ + _____ $5x + 0y = 20$
$\boldsymbol{x + 2y = 6}$ $\boldsymbol{4x - 2y = 14}$	Divide by 5
Plug in 4 for x and solve for y	$\boldsymbol{x + 2y = 6}$ $\boldsymbol{4 + 2(1) = 6}$ $4 + 2 = 6$ $6 = 6$ $\boldsymbol{4x - 2y = 14}$ $\boldsymbol{4(4) - 2(1) = 14}$ $16 - 2 = 14$ $14 = 14$ $(4,1)$
Line up the x and y terms	$\boldsymbol{4 + 2y = 6}$ $2y = 2$ $\frac{2}{2}y = \frac{2}{2}$ $y = 1$
$\frac{5}{5}x = \frac{20}{5}$ $x = 4$	Add the two equations together