

Evkovich. Prd. 2

Ret.

Unit 18 Review of Linear Equations – Form B

You have 15 minutes to answer as many questions as you can. Don't worry if you can't answer all the questions. Please show all your work. When the question asks you to explain, please explain your answer in plain English.

1) Solve for y

$$\begin{array}{r} 9 + 2y = 4 \\ -9 \quad -9 \\ \hline 2y = -5 \\ \frac{2y}{2} = \frac{-5}{2} \end{array}$$

$$y = -2.5$$

2) Solve for x:

$$\begin{array}{r} \frac{x}{-4} + 6 = -3 \\ -6 \quad -6 \\ \hline \frac{x}{-4} = -9 \end{array}$$

$$\begin{array}{r} -9 \\ x - 4 \\ \hline x = -36 \end{array}$$

3) Solve for x:

$$2x + 5x = 6$$

$$\begin{array}{r} 7x = 6 \\ \hline 7 \end{array}$$

$$x = -1.5$$

4) Solve for y:

$$4y + (-7) = 5 + 6y$$

Show your work here	For each step, explain why
$\begin{array}{r} (-7) = 4 + 2y \\ -5 \\ \hline -7 \end{array}$ $\begin{array}{r} (-7) - (-7) \\ \hline 2 \end{array} \quad \begin{array}{r} (-7) - (-7) \\ \hline 2y \end{array}$ $y = 6$	<p>I added the 5s so I was left with them together</p> <p>Then I subtracted the 5 so y was by itself</p> <p>then I divided by 2 to get 6</p>

5) Solve for y:

$$7 + (-8y) = -3 + 2y$$

$$\begin{array}{r} 7 + (-8y) = -3 + 2y \\ -2y \quad -2y \end{array}$$

$$7 + 10y = -3$$

$$\frac{-10y}{10} = \frac{-10}{10}$$

$$y = 1$$

6) Solve for x:

$$-1.8x + 6.3 = 9.7 + 5.1x$$

$$\begin{array}{r} -1.8x + 6.3 = 9.7 + 5.1x \\ +1.8x \quad +1.8x \end{array}$$

Show your work here	For each step, explain why
$6.3 = 9.7 + 6.9x$ $-9.7 - 9.7$ $\frac{-3.6}{3.6} = \frac{6.9x}{3.6}$ $1.3x$	

7) Solve for x:

$$-13.8 + 6.3x = 21x + (-5.9)$$

$$-6.3x - 3.6x$$

$$-10.8$$

$$-3.8 \quad 14.8x + (-5.9)$$

$$+ 5.9$$

$$\frac{9.7x}{9.7} = \frac{14.8}{9.7}$$

$$1.3x$$

8) Solve for y:

$$y + 8.2 = -3.4y + (-11.6)$$

$$13.4y$$

Show your work here	For each step, explain why
$4.4y + 8.2 = -11.6$ $-8.2 \quad -8.2$ $\frac{4.4y}{4.4} \quad \frac{3.4}{4.4}$ $-1y$	

9) Solve for x:

$$\frac{3x+8}{7} = -\frac{12x}{7}$$

$$\begin{array}{r} 3x+8 \\ -8 \\ \hline 3x \end{array} \quad \begin{array}{r} 12x \\ -12x \\ \hline 0 \end{array}$$

$$\begin{array}{r} 25.1 \\ 3 \overline{) 75} \\ \underline{6} \\ 16 \\ \underline{15} \\ 1 \end{array}$$

10) Solve for x:

$$12.6x + 21.1 + (-7.4x) = -9.2x + 15.8$$

$$\begin{array}{r} 7.4 \\ \cancel{12.6}x + 21.1 - \cancel{7.4}x = -9.2x + 15.8 \\ + 9.2x \\ \hline 29.2 + 21.1 = 15.8 \\ - 29.2 \\ \hline 45.0 \end{array}$$

$$2.4x$$

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1) Solve for y

$$9 + 2y = 4$$

$$-9 \quad 2y = -5$$

$$\frac{x}{-4} = -9$$

$$\frac{x}{-4} \times -4 = -9 \times -4$$

2) Solve for x:

$$\frac{x}{-4} + 6 = -3$$

3) Solve for x:

$$2x + 5x = 6$$

$x =$

4) Solve for y:

$$4y + (-7) = 5 + 6y$$

Show your work here	For each step, explain why
<p>SUB</p> $4y + (-7) = 5 + 6y$ $4y + (-7) - 6y = 5 + 6y - 6y$ $-2y - 7 = 5$ $-2y - 7 + 7 = 5 + 7$ $-2y = 12$ $-2y \div -2 = 12 \div -2$ $y = -6$	

$y = -6$

5) Solve for y:

$$7 + (-8y) = -3 + 2y$$

$$y = -15$$

6) Solve for x:

$$-1.8x + 6.3 = 9.7 + 5.1x$$

Show your work here	For each step, explain why
$1.6x$	$1.6x$

7) Solve for x :

$$-13.8 + 6.3x = 21.1x + (-5.9)$$

8) Solve for y :

$$y + 8.2 = -3.4y + (-11.6)$$

Show your work here	For each step, explain why

9) Solve for x :

$$\frac{3x+8}{7} = -12x$$

10) Solve for x :

$$12.6x + 21.1 + (-7.4x) = -9.2x + 15.8$$

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You have 15 minutes to answer as many questions as you can. Don't worry if you can't answer all the questions. Please show all your work. When the question asks you to explain, please explain your answer in plain English.

1) Solve for y

$$\begin{array}{r} 9 + 2y = 4 \\ -9 \quad -9 \\ \hline 2y = -5 \\ \frac{2y}{2} = \frac{-5}{2} \end{array}$$

$$y = -2.5$$

2) Solve for x:

$$\begin{array}{r} \frac{x}{-4} + 6 = -3 \\ -6 \quad -6 \\ \hline \frac{x}{-4} = -9 \quad -4 \\ -4 \cdot \frac{x}{-4} = -9 \cdot -4 \end{array}$$

$$x = -36$$

3) Solve for x:

$$2x + 5x = 6$$

$$\begin{array}{r} +2 \quad +2 \\ \hline 7x = 6 \\ \underline{7} \quad \underline{7} \end{array}$$

$$x =$$

4) Solve for y:

$$4y + (-7) = 5 + 6y$$

Show your work here	For each step, explain why
$\begin{array}{r} -4y + (-7) = 5 + 6y \\ \text{\textit{*-1}} \quad \quad \quad \text{\textit{*-1}} \\ \hline (-7) = 5 + 2y \\ \underline{-5} \quad \underline{-5} \\ -12 = 2y \\ \underline{2} \quad \underline{2} \\ -6 = 4 \end{array}$	

5) Solve for y:

$$\begin{array}{r}
 7 + (-8y) = -3 + 2y \\
 +3 \quad +3 \\
 \hline
 7 = -3 + 10y \\
 +3 \quad +3 \\
 \hline
 10 = 10y \\
 \hline
 10 \quad 10
 \end{array}$$

$$1 = y$$

6) Solve for x:

$$-1.8x + 6.3 = 9.7 + 5.1x$$

Show your work here	For each step, explain why
$ \begin{array}{r} -1.8x + 6.3 = 9.7 + 5.1x \\ +1.8x \quad +1.8x \\ \hline 6.3 = 9.7 + 6.9x \\ -9.7 \quad -9.7 \\ \hline -3.4 = 6.9x \\ \hline 6.9 \quad 6.9 \\ \hline = x \end{array} $	

7) Solve for x:

$$-13.8 + 6.3x = 21.1x + (-5.9)$$

$$\begin{array}{r} \overset{12}{-13.8} = 13.8x + (-5.9) \\ + 5.9 \qquad \qquad + 5.9 \\ \hline 7.9 = 13.8x \\ \underline{13.8} \quad \underline{13.8} \end{array}$$

$$= X$$

8) Solve for y:

$$y + 8.2 = -3.4y + (-11.6)$$

Show your work here	For each step, explain why
$\begin{array}{r} y + 8.2 = -3.4y + (-11.6) \\ + 3.4 \qquad + 3.4 \\ \hline 3.4y + 8.2 = (-11.6) \\ - 8.2 \quad - 8.2 \\ \hline 3.4y = -19.8 \\ \underline{3.4} \quad \underline{3.4} \end{array}$ $y =$	

$$\begin{array}{r} 12 \\ \times 7 \\ \hline 84 \end{array}$$

9) Solve for x:

$$7 \cdot \frac{3x+8}{7} = -12x - 7$$

$$\begin{array}{r} 3x+8 = -84x \\ +84 \quad +84 \end{array}$$

$$87x+8=0$$

$$\begin{array}{r} -8 \quad -8 \end{array}$$

$$87x = -8$$

$$x =$$

10) Solve for x:

$$12.6x + 21.1 + (-7.4x) = -9.2x + 15.8$$

$$\begin{array}{r} +9.2 \quad +9.2 \\ 21.8x + 21.1 + (-7.4x) = 15.8 \end{array}$$

$$\begin{array}{r} +7.4 \quad +7.4 \\ 29.2 + 21.1 = 15.8 \end{array}$$

$$\begin{array}{r} -21.1 \quad -21.1 \end{array}$$

$$\begin{array}{r} 29.2x = -14.7 \\ \hline 29.2 \quad 29.2 \end{array}$$

$$x = -$$

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Rot.

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1) Solve for y.

$$\begin{array}{r} 9 + 2y = 4 \\ -9 \quad -9 \end{array}$$

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

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

2) Solve for x:

$$\begin{array}{r} x + 6 = -3 \\ -4 \quad -6 \quad -6 \end{array}$$

$$-4, \frac{x}{-4} = \frac{-9}{-4}$$

$$x = -36$$

3) Solve for x:

$$2x + 5x = 6$$

$$\frac{7x}{7} = \frac{6}{7}$$

$$x = \frac{6}{7}$$

4) Solve for y:

$$4y + (-7) = 5 + 6y$$

Show your work here	For each step, explain why
$4y$ + (-7) = 5 + $6y$ $-4y$ $-7 = 5 + 2y$ $-5 = 5 - 5$ $-12 = 2y$ $\frac{-12}{2} = \frac{2y}{2}$ $-6 = y$	subtract $4y$ from both sides subtract 5 from both sides divide both sides by 2 ending with $y = -6$

5) Solve for y:

$$7 + (-8y) = -3 + 2y$$

~~-8y~~ ~~-2y~~

$$7 - 10y = -3$$

~~-7~~ ~~-7~~

$$\frac{-10y}{-10} = \frac{-10}{-10}$$

$$y = 1$$

6) Solve for x:

$$-1.8x + 6.3 = 9.7 + 5.1x$$

Show your work here	For each step, explain why
$\begin{aligned} -1.8x + 6.3 &= 9.7 + 5.1x \\ +1.8x & \quad +1.8x \\ \hline 6.3 &= 9.7 + 6.9x \\ -9.7 & \quad -9.7 \\ \hline -3.4 &= 6.9x \end{aligned}$	

7) Solve for x:

$$-13.8 + 6.3x = 21.1x + (-5.9)$$

$$\underline{-6.3x \quad -6.3x}$$

$$\begin{array}{r} -13.8 \\ + 5.9 \\ \hline \end{array} = 14.8x + \begin{array}{r} \cancel{-5.9} \\ + 5.9 \\ \hline \end{array}$$

$$\begin{array}{r} -7.9 \\ \hline 14.8 \end{array} = \begin{array}{r} 14.8x \\ \hline 14.8 \end{array}$$

$$\begin{array}{r} -7.9 \\ \hline 14.8 \end{array} = x$$

8) Solve for y:

$$y + 8.2 = -3.4y + (-11.6)$$

Show your work here	For each step, explain why
$\begin{array}{r} y + 8.2 = -3.4y + -11.6 \\ +3.4y \quad +3.4y \\ \hline 4.4y + 8.2 = -11.6 \\ -8.2 \quad -8.2 \\ \hline 4.4y = \frac{-19.8}{4.4} \\ \hline y = \frac{-19.8}{4.4} \end{array}$	

9) Solve for x:

$$\frac{3x+8}{\cancel{21.7}} = -12x \cdot 7$$

$$\begin{array}{rcl} 3x + 8 & = & -12x \cdot 7 \\ +12x & & +12x \end{array}$$

$$\begin{array}{rcl} 15x + 8 & = & 7 \\ -8 & & -8 \end{array}$$

$$\frac{15x}{15} = \frac{-1}{15}$$

$$x = \frac{-1}{15}$$

10) Solve for x:

$$\begin{array}{rcl} 12.6x + 21.1 + (-7.4x) & = & -9.2x + 15.8 \\ +7.4x & & \end{array}$$

$$\begin{array}{rcl} 5.2x + 21.1 & = & -9.2x + 15.8 \\ +9.2x & & +9.2x \end{array}$$

$$\begin{array}{rcl} 14.4x + 21.1 & = & 15.8 \\ -21.1 & & -21.1 \end{array}$$

$$\frac{14.4x}{14.4} = \frac{-5.3}{14.4}$$

$$x = \frac{-5.3}{14.4}$$

Elkovich. Prd. 2

D.A.

Student Absent

Unit 18 Review of Linear Equations – Form B

You have 15 minutes to answer as many questions as you can. Don't worry if you can't answer all the questions. Please show all your work. When the question asks you to explain, please explain your answer in plain English.

1) Solve for y .

$$9 + 2y = 4$$

2) Solve for x :

$$\frac{x}{-4} + 6 = -3$$

3) Solve for x :

$$2x + 5x = 6$$

4) Solve for y :

$$4y + (-7) = 5 + 6y$$

Show your work here	For each step, explain why

5) Solve for y :

$$7 + (-8y) = -3 + 2y$$

6) Solve for x :

$$-1.8x + 6.3 = 9.7 + 5.1x$$

Show your work here	For each step, explain why

7) Solve for x :

$$-13.8 + 6.3x = 21.1x + (-5.9)$$

8) Solve for y :

$$y + 8.2 = -3.4y + (-11.6)$$

Show your work here	For each step, explain why

9) Solve for x :

$$\frac{3x+8}{7} = -12x$$

10) Solve for x :

$$12.6x + 21.1 + (-7.4x) = -9.2x + 15.8$$

Etkovich. Prd. 2

Dot.

Unit 18 Review of Linear Equations – Form B

You have 15 minutes to answer as many questions as you can. Don't worry if you can't answer all the questions. Please show all your work. When the question asks you to explain, please explain your answer in plain English.

1) Solve for y

$$9 + 2y = 4$$

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

$$y = -2.5$$

2) Solve for x:

$$\frac{x}{-4} + 6 = -3$$

$$\frac{x}{-4} = -9$$

$$x = 36$$

3) Solve for x:

$$2x + 5x = 6$$

$$\frac{7x}{7} = \frac{6}{7}$$

$$x = 8.\overline{88}$$

$$\begin{array}{r} 8.8 \\ 7 \overline{) 6.09} \\ \underline{56} \\ 49 \\ \underline{42} \\ 60 \\ \underline{56} \\ 40 \\ \underline{35} \\ 50 \\ \underline{49} \\ 10 \\ \underline{7} \\ 30 \\ \underline{28} \\ 20 \\ \underline{14} \\ 60 \\ \underline{56} \\ 40 \\ \underline{35} \\ 50 \\ \underline{49} \\ 10 \end{array}$$

4) Solve for y:

$$4y + (-7) = 5 + 6y$$

Show your work here	For each step, explain why
$\begin{array}{r} 4y + (-7) = 5 + 6y \\ -4y \quad -4y \\ \hline (-7) = 5 + 2y \\ -5 \quad -5 \\ \hline -12 = 2y \\ \hline -6 = y \end{array}$	

5) Solve for y :

$$7 + (-8y) = -3 + 2y$$

74-104-3

$$\frac{-10y}{10} = \frac{-10}{10}$$

$$y = 1$$

6) Solve for x :

$$-1.8x + 6.3 = 9.7 + 5.1x$$

Show your work here	For each step, explain why
$\begin{array}{r} -1.8x + 6.3 = 9.7 + 5.1x \\ +1.8x \quad 0 \qquad \qquad \quad 1.8x \\ \hline 6.3 = 9.7 + 6.9x \\ \frac{-9.7}{-3.4} \quad 9.7 \\ \hline 6.9 = \frac{6.9x}{6.9} \\ \hline 6.9 \overline{) 3.4} \end{array}$	

7) Solve for x:

$$-13.8 + 6.3x = 11x + (-5.9)$$

$$-6.3x - 6.3x$$

$$-13.8 = 4.8x + -5.9$$

$$-5.4 + 5.4$$

$$\frac{-14.7}{14.8} = \frac{14.8x}{14.8}$$

$$\begin{array}{r} 12 \\ 148 \\ \times 3 \\ \hline 444 \end{array}$$

$$\begin{array}{r} 1.33 \\ 148 \overline{) 194.4} \\ \underline{148} \\ 464 \\ \underline{444} \\ 200 \\ \underline{196} \\ 40 \\ \underline{396} \\ 4 \end{array}$$

$$x = 1.33$$

8) Solve for y:

$$y + 8.2 = -3.4y + (-11.6)$$

Show your work here	For each step, explain why
$y + 8.2 = -3.4y + (-11.6)$ $3.4y \quad 3.4y$ $4.4y + 8.2 = -11.6$ $y - 8.2 = \frac{-11.6}{-8.2}$ $y = 1.415$ $\begin{array}{r} 1.415 \\ 1415 \overline{) 2000} \\ \underline{1415} \\ 585 \\ \underline{563} \\ 220 \\ \underline{211} \\ 90 \\ \underline{80} \\ 10 \end{array}$	

9) Solve for x:

$$7 \frac{3x+8}{7} = -12x$$

$$21x + 8 = -84x$$

$$8 = -63x$$

$$\begin{array}{r} 63 \\ \times 2 \\ \hline 126 \end{array}$$

$$x = 126$$

$$\begin{array}{r} 1.26 \\ 63 \overline{) 810.00} \\ \underline{63} \\ 180 \\ \underline{126} \\ 540 \\ \underline{504} \\ 360 \\ \underline{378} \\ 820 \\ \underline{810} \\ 100 \\ \underline{84} \\ 160 \\ \underline{126} \\ 340 \\ \underline{378} \\ 620 \\ \underline{630} \\ 90 \\ \underline{84} \\ 60 \\ \underline{63} \\ 30 \\ \underline{30} \\ 0 \end{array}$$

$$\begin{array}{r} 1 \\ 63 \\ \times 4 \\ \hline 252 \end{array}$$

$$\begin{array}{r} 1 \\ 63 \\ \times 6 \\ \hline 378 \end{array}$$

$$\begin{array}{r} 2 \\ 63 \\ \times 8 \\ \hline 504 \end{array}$$

$$\begin{array}{r} 2 \\ 63 \\ \times 2 \\ \hline 126 \end{array}$$

10) Solve for x:

$$12.6x + 21.1 + (-7.4x) = -912x + 15.8$$

$$12.6x + 21.1 = 15.8 + 15.8$$

$$12.6x + 5.3 = 1.8x$$

$$x = 6.86$$

$$\begin{array}{r} 6.86 \\ 8 \overline{) 55.28} \\ \underline{56} \\ 70 \\ \underline{64} \\ 60 \\ \underline{56} \\ 40 \\ \underline{40} \\ 0 \end{array}$$

Erkovich. Prd. 2

Det.

Unit 18 Review of Linear Equations – Form B

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1) Solve for y.

$$\begin{array}{r} 9 + 2y = 4 \\ -9 \quad -9 \end{array}$$

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

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

2) Solve for x:

$$\begin{array}{r} \frac{x}{-4} + 6 = -3 \\ -4 \quad -6 \quad -6 \end{array}$$

$$\frac{x}{-4} = -9(-4)$$

$$x = 36$$

3) Solve for x:

$$2x + 5x = 6$$

$$\frac{7x}{7} = \frac{6}{7}$$

$$x = \frac{6}{7}$$

4) Solve for y:

$$4y + (-7) = 5 + 6y$$

Show your work here	For each step, explain why
4y + (-7) = 5 + 6y $4y - 4y + (-7) = 5 + 2y$	Subtract 4y from both sides
$(-7) - 5 = 5 - 5 + 2y$	Subtract 5
$\frac{-12}{2} = \frac{2y}{2}$	Divide both sides by 2
$y = -6$	Answer

5) Solve for y:

$$7 + (-8y) = -3 + 2y$$

$$\quad \quad -2y \quad \quad -2y$$

$$\begin{array}{r} 7 + 10y = 3 \\ -7 \quad \quad -7 \end{array}$$

$$\begin{array}{r} -10y = -10 \\ -10 \quad -10 \end{array}$$

$$y = -1$$

6) Solve for x:

$$-1.8x + 6.3 = 9.7 + 5.1x$$

Show your work here	For each step, explain why
-1.8x + 1.8x + 6.3 = 9.7 + 5.1x + 1.8x	Add 1.8x to both sides
6.3 - 9.7 = 9.7 - 9.7 + 6.3 - 5.1x	Sub. 9.7
x = 5.7	

7) Solve for x:

$$-13.8 + 6.3x = 21.1x + (-5.9)$$

$$\begin{array}{r} -6.3x - 6.3x \\ \hline -13.8 = 14.8x + (-5.9) \\ + (5.9) \quad - (-5.9) \end{array}$$

$$\frac{7.9}{14.8} = \frac{14.8x}{14.8}$$

$$\frac{7.9}{14.8} = x$$

8) Solve for y:

$$y + 8.2 = -3.4y + (-11.6)$$

Show your work here	For each step, explain why
$3.4y + 8.2 = -11.6$	Add $3.4y$ to both sides
$3.4y = -3.4$	Subtract 8.2
$\frac{3.4}{3.4} \quad \frac{-3.4}{3.4}$	Divide by 3.4
$y = -1$	

~~-11.6~~
~~8.2~~
~~3.4~~

9) Solve for x:

$$\frac{3x+8}{7} = -12x$$

$$3x+8 = \frac{-84}{-8}$$

$$\frac{3x}{3} = \frac{76}{3}$$

$$x = 3\frac{1}{3}$$

10) Solve for x:

$$12.6x + 21.1 + (-7.4x) = -9.2x + 15.8$$

$$20x + 21.1 = -9.2x + 15.8$$

$$20x \quad + 20x$$

$$21.1 = 7.2x + 15.8$$

$$\frac{-15.8}{5.3} \quad \frac{-15.8}{-15.8}$$

$$\frac{5.3}{7.2} = \frac{7.2x}{7.2}$$

$$\frac{5.3}{7.2} = x$$

Erkovich. Prod. 2

Rot.

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1) Solve for y

$$9 + 2y = 4$$

2) Solve for x:

$$\frac{x}{-4} + 6 = -3$$

3) Solve for x:

$$2x + 5x = 6$$

$$7x = 6$$

$$x = \frac{6}{7}$$

$$0.8571428571$$

4) Solve for y:

$$4y + (-7) = 5 + 6y$$

Show your work here	For each step, explain why
$4y - 7 = 5 + 6y$ $-7 - 5 = 5 - 5 + 6y - 4y$ $-12 = 2y$ $-6 = y$	S

5) Solve for y:

$$7 + (-8y) = -3 + 2y$$

$$7 - 8y = -3 + 2y$$

$$7 - 7 = -3 + 2y - 7$$

$$-8y = -10 - 3$$

$$-8y = -10$$

6) Solve for x:

$$-1.8x + 6.3 = 9.7 + 5.1x$$

Show your work here	For each step, explain why
$-1.8x + 6.3 = 9.7 + 5.1x$ $-1.8x - 5.1x + 6.3 = 9.7 + 5.1x - 5.1x$ $-6.9x + 6.3 = 9.7$ $-6.9x + 6.3 - 6.3 = 9.7 - 6.3$ $-6.9x = 3.4$ $-6.9x / -6.9 = 3.4 / -6.9$ $x = -0.4927536231884058$	

7) Solve for x :

$$-13.8 + 6.3x = 21.1x + (-5.9)$$

$$\begin{aligned} -13.8 + 6.3x &= 21.1x - 5.9 \\ -13.8 + 6.3x - 6.3x &= 21.1x - 5.9 - 6.3x \\ -13.8 &= 14.8x - 5.9 \\ -13.8 + 5.9 &= 14.8x - 5.9 + 5.9 \\ -7.9 &= 14.8x \end{aligned}$$

8) Solve for y :

$$y + 8.2 = -3.4y + (-11.6)$$

Show your work here	For each step, explain why

9) Solve for x :

$$\frac{3x+8}{7} = -12x$$

10) Solve for x :

$$12.6x + 21.1 + (-7.4x) = -9.2x + 15.8$$

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Unit 18 Review of Linear Equations – Form B

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1) Solve for y:

$$9 + 2y = 4$$

$$-9 \quad -9$$

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

$$y = -2.5$$

2) Solve for x:

$$\frac{x}{-4} + 6 = -3$$

$$-4 \cdot \frac{x}{-4} - 24 = -12 - 24$$

3) Solve for x:

$$2x + 5x = 6$$

$$\frac{7x}{7} = \frac{6}{7}$$

4) Solve for y:

$$4y + (-7) = 5 + 6y$$

Show your work here	For each step, explain why
$ \begin{array}{r} 4y + (-7) = 5 + 6y \\ -4y \quad \quad -4y \\ \hline (-7) = 5 + 2y \\ -5 \quad \quad 5 \\ \hline -12 = 2y \\ \frac{-12}{2} = \frac{2y}{2} \\ -6 = y \end{array} $	<p>Subtract $-4y$ Subtract divide by 2</p>

5) Solve for y:

$$7 + (-8y) = -3 + 2y$$

$$\quad \quad -2y \quad \quad -2y$$

$$\begin{array}{r} 7 \\ -7 \end{array} + 10y = -3$$

$$\quad \quad \quad -7$$

$$\frac{-10y}{10} = \frac{-10}{-10}$$

6) Solve for x:

$$-1.8x + 6.3 = 9.7 + 5.1x$$

Show your work here	For each step, explain why
$\begin{array}{r} -1.8x + 6.3 = 9.7 + 5.1x \\ +1.8x \quad \quad \quad +1.8x \\ \hline 6.3 = 9.7 + 6.9x \\ -9.7 \quad -9.7 \\ \hline = 6.9x \end{array}$	<p>Add $1.8x$</p> <p>Subtract 9.7</p>

7) Solve for x:

$$-13.8 + 6.3x = 11.1x + (-5.9)$$

$$\begin{array}{r} 13.8 + 3.7x + (-5.9) \\ -5.9 \end{array}$$

8) Solve for y:

$$y + 8.2 = -3.4y + (-11.6)$$

Show your work here	For each step, explain why
$\begin{array}{r} y + 8.2 = -3.4y + (-11.6) \\ +3.4 \quad +3.4 \\ \hline 3.4y + 8.2 = (-11.6) \\ -8.2 \quad -8.2 \\ \hline 3.4y = -19.8 \\ \hline y = \frac{-19.8}{3.4} \end{array}$	

9) Solve for x:

$$\frac{3x+8}{7} = -12x + 84$$

$$3x + 8 = -84x + 588$$

$$8 = -87x + 588$$

$$-580 = -87x$$

10) Solve for x:

$$12.6x + 21.1 + (-7.4x) = -9.2x + 15.8$$

$$12.6x + 21.1 = -9.2x + 15.8$$

$$21.1 - 15.8 = -9.2x - 12.6x$$

$$5.3 = -21.8x$$

$$\begin{array}{r} 12.6 \\ 2.0 \\ \hline 14.6 \end{array}$$

Evllovich. Prod. 2
Ret.

Unit 18 Review of Linear Equations – Form B

You have 15 minutes to answer as many questions as you can. Don't worry if you can't answer all the questions. Please show all your work. When the question asks you to explain, please explain your answer in plain English.

1) Solve for y

$$9 + 2y = 4$$

$$\begin{array}{r} 9 + 2y = 4 \\ -9 \quad -9 \\ \hline 2y = -5 \end{array}$$

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

2) Solve for x:

$$\frac{x}{-4} + 6 = -3$$

$$\begin{array}{r} \frac{x}{-4} + 6 = -3 \\ -6 \quad -6 \\ \hline \frac{x}{-4} = -9 \end{array}$$

$$x = -36$$

3) Solve for x:

$$2x + 5x = 6$$

$$\begin{array}{r} 7x = 6 \\ \underline{7} \quad 5 \end{array}$$

4) Solve for y:

$$4y + (-7) = 5 + 6y$$

Show your work here	For each step, explain why
$\begin{array}{r} 4y + (-7) = 5 + 6y \\ -4y \quad -4y \\ \hline -7 = 5 + 2y \\ -5 \quad -5 \\ \hline -12 = 2y \\ \underline{-2} \quad -2 \\ -6 = y \end{array}$	

5) Solve for y:

$$7 + (-8y) = -3 + 2y$$

$$7 + -10 = -3$$

$$\frac{-3}{-10} = \frac{-10}{-10}$$

6) Solve for x:

$$-1.8x + 6.3 = 9.7 + 5.1x$$

Show your work here	For each step, explain why
$-1.8x + 6.3 = 9.7 + 5.1x$ $+1.8x \quad +1.8x$ $6.3 = 9.7 + 6.9x$ $-9.7 \quad -9.7$ $\frac{-3.4}{-10} = \frac{6.9x}{-10}$	

7) Solve for x:

$$-13.8 + 6.3x = 21.1x + (-5.9)$$

$$\begin{array}{r} -13.8 \\ + 5.9 \\ \hline -7.9 \end{array} = \begin{array}{r} 21.1x \\ - 6.3x \\ \hline 14.8x \end{array}$$

8) Solve for y:

$$y + 8.2 = -3.4y + (-11.6)$$

Show your work here	For each step, explain why
$\begin{array}{r} y + 8.2 \\ + 3.4y \\ \hline 4.4y + 8.2 \end{array}$ $\begin{array}{r} 4.4y + 8.2 \\ - 8.2 \\ \hline 4.4y \end{array}$	

9) Solve for x:

$$\frac{3x+8}{7} = -12x$$

$$\frac{8}{7} = -9.2$$

10) Solve for x:

$$12.6x + 21.1 + (-7.4x) = -9.2x + 15.8$$

$$5.2x + 21.1 = -9.2x + 15.8$$

$$-14.4x = -4.3$$

$$x = \frac{-4.3}{-14.4}$$

Erkovich, Prd. 2

Rot.

Unit 18 Review of Linear Equations – Form B

You have 15 minutes to answer as many questions as you can. Don't worry if you can't answer all the questions. Please show all your work. When the question asks you to explain, please explain your answer in plain English.

1) Solve for y

$$9 + 2y = 4$$

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

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

2) Solve for x:

$$\frac{x}{-4} + 6 = -3$$

$$(-4) \frac{y}{-4} = -4(-4)$$

$$y = 36$$

3) Solve for x:

$$2x + 5x = 6$$

$$\frac{7x}{7} = \frac{6}{7}$$

$$1 = \frac{6}{7}$$

4) Solve for y:

$$4y + (-7) = 5 + 6y$$

Show your work here	For each step, explain why
$ \begin{array}{r} 4y + (-7) = 5 + 6y \\ -4y \quad -4y \\ \hline -7 = 5 + 2y \\ -5 \quad -5 \\ \hline -12 = 2y \\ \frac{-12}{2} = \frac{2y}{2} \\ -6 = y \end{array} $	<p>to get rid of the $4y$</p> <p>to get $-7 = 5 + 2y$</p> <p>and $-5 = -5$</p> <p>both</p> <p>Divide to get the answer</p>

5) Solve for y:

$$7 + (-8y) = -3 + 2y$$

$$\begin{aligned} 7 + (-8y) &= -3 + 2y \\ -7 & \quad -7 \\ -8y &= -10 + 2y \\ -8y - 2y &= -10 + 2y - 2y \\ -10y &= -10 \\ y &= 1 \end{aligned}$$

6) Solve for x:

$$-1.8x + 6.3 = 9.7 + 5.1x$$

Show your work here	For each step, explain why
$\begin{aligned} -1.8x + 6.3 &= 9.7 + 5.1x \\ +1.8x & \quad +1.8x \\ 6.3 &= 9.7 + 6.9x \\ -9.7 & \quad -9.7 \\ -3.4 &= 6.9x \\ \frac{-3.4}{6.9} &= \frac{6.9x}{6.9} \end{aligned}$	<p>added $1.8x$ to both sides</p> <p>subtracted 9.7 from both sides</p> <p>divided both sides by 6.9</p>

$$\begin{aligned} 9.7 \\ 6.3 \end{aligned}$$

$$\frac{-3.4}{6.9} = x$$

7) Solve for x:

$$-13.8 + 6.3x = 21.1x + (-5.9)$$

$$\cancel{-6.3} \quad \cancel{-6.3}$$

$$\begin{array}{r} -13.8 \\ + 5.9 \\ \hline -14.0 \end{array} = \begin{array}{r} 21.1x \\ - 6.3x \\ \hline 14.8x \end{array} + \begin{array}{r} (-5.9) \\ + 5.9 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 7.9 \\ \hline 14.8 \end{array} = \begin{array}{r} 14.8x \\ \hline 14.8 \end{array}$$

$$\frac{7.9}{14.8} = x$$

8) Solve for y:

$$y + 8.2 = -3.4y + (-11.6)$$

Show your work here	For each step, explain why
$\begin{array}{r} y + 8.2 = -3.4y + (-11.6) \\ + 3.4y \quad + 3.4y \\ \hline 4.4y + 8.2 = -11.6 \\ - 8.2 \quad - 8.2 \\ \hline 4.4y = -19.8 \\ \hline 4.4 \quad 4.4 \\ \hline y = -4.5$	

$$\begin{array}{r} y = -19.8 \\ \hline 4.4 \\ \hline y = -4.5 \end{array}$$

9) Solve for x:

$$\textcircled{7} \frac{3x+8}{7} = -12x \textcircled{6}$$

$$\begin{array}{r} 21x + 56 = 12x \\ -21 \end{array}$$

$$\begin{array}{r} 56 = 9x \\ \hline 6 \end{array}$$

$$\frac{56}{6} = 9$$

10) Solve for x:

$$12.6x + 21.1 + (-7.4x) = -9.2x + 15.8$$

$$\begin{array}{r} 12.6 \\ 7.4 \\ \hline 5.2 \end{array}$$

$$\begin{array}{r} 5.2x + 21.1 = -9.2x + 15.8 \\ -5.2x \end{array}$$

$$\begin{array}{r} 12 \\ 10 \\ \hline 2 \\ 12 \\ 10 \\ \hline 2 \end{array}$$

$$\begin{array}{r} 21.2 = 14.4x + 15.8 \\ -15.8 \end{array}$$

$$\begin{array}{r} 5.4 = 14.4x \\ \hline 14.4 \end{array}$$

$$\frac{5.4}{14.4} = x$$

Erbeich. Prd. 2
Dot.

Unit 18 Review of Linear Equations – Form B

You have 15 minutes to answer as many questions as you can. Don't worry if you can't answer all the questions. Please show all your work. When the question asks you to explain, please explain your answer in plain English.

1) Solve for y

$$9 + 2y = 4$$

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

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

2) Solve for x:

$$\frac{x}{-4} + 6 = -3$$

$$\frac{x}{-4} = -9$$

$$x = 36$$

3) Solve for x:

$$2x + 5x = 6$$

$$\frac{7x}{7} = \frac{6}{7}$$

$$x = \frac{6}{7}$$

4) Solve for y:

$$4y + (-7) = 5 + 6y$$

Show your work here	For each step, explain why
$\begin{aligned} 4y + (-7) &= 5 + 6y \\ -4y & \quad -4y \\ -7 &= 5 + 2y \\ -12 & \quad -12 \\ \frac{-12}{2} & \quad \frac{2y}{2} \\ -6 &= y \end{aligned}$	<p>subtract 4 from both sides</p> <p>subtract 5 from both sides</p>

5) Solve for y:

$$7 + (-8y) = -3 + 2y$$

$$+8y \quad +8y$$

$$7 - 3 = 10y$$

$$+3 \quad +3$$

$$\frac{10}{10} = \frac{10y}{10}$$

$$1 = y$$

6) Solve for x:

$$-1.8x + 6.3 = 9.7 + 5.1x$$

Show your work here	For each step, explain why
$-1.8x + 6.3 = 9.7 + 5.1x$ $+1.8 \quad +1.8$ $6.3 = 9.7 + 6.9x$ $-9.7 \quad -9.7$ $-17.0 = 6.9x$	

7) Solve for x:

$$-13.8 + 6.3x = 21.1x + (-5.9)$$

$$\begin{array}{r} -13.8 = 14.8x + \cancel{-5.9} \\ + 5.9 \quad \quad \quad + 5.9 \\ \hline 12.1 = 14.8x \\ 14.8 \quad \quad 14.8 \end{array}$$

8) Solve for y:

$$y + 8.2 = -3.4y + (-11.6)$$

Show your work here	For each step, explain why
$\begin{array}{r} y + 8.2 = -3.4y + (-11.6) \\ +3.4 \quad \quad +3.4 \\ \hline 4.4y + 8.2 = -11.6 \\ -8.2 \quad \quad -8.2 \\ \hline 4.4y = -19.8 \\ 4.4 \quad \quad 4.4 \\ \hline y = -4.5 \\ -4.4 \end{array}$	

9) Solve for x:

$$\frac{3x+8}{7x-7} = -12x$$

$$3x+8 = -84x$$

$$\frac{8 = -87x}{8}$$

$$x = \frac{-87}{8}$$

10) Solve for x:

$$12.6x + 21.1 + (-7.4x) = -9.2x + 15.8$$

$$12.6x + 21.1 = -9.2x + 15.8$$

$$\frac{12.6x + 21.1}{+ 16.2} = \frac{-9.2x + 15.8}{+ 16.2}$$

$$\frac{12.6x + 21.1}{5.9} = \frac{-9.2x + 15.8}{5.9}$$

Evkovich, Prod. 2

Dot.

Student Absent.

Unit 18 Review of Linear Equations – Form B

You have 15 minutes to answer as many questions as you can. Don't worry if you can't answer all the questions. Please show all your work. When the question asks you to explain, please explain your answer in plain English.

1) Solve for y

$$9 + 2y = 4$$

2) Solve for x:

$$\frac{x}{-4} + 6 = -3$$

3) Solve for x :

$$2x + 5x = 6$$

4) Solve for y :

$$4y + (-7) = 5 + 6y$$

Show your work here	For each step, explain why

5) Solve for y :

$$7 + (-8y) = -3 + 2y$$

6) Solve for x :

$$-1.8x + 6.3 = 9.7 + 5.1x$$

Show your work here	For each step, explain why

7) Solve for x :

$$-13.8 + 6.3x = 21.1x + (-5.9)$$

8) Solve for y :

$$y + 8.2 = -3.4y + (-11.6)$$

Show your work here	For each step, explain why

9) Solve for x :

$$\frac{3x+8}{7} = -12x$$

10) Solve for x :

$$12.6x + 21.1 + (-7.4x) = -9.2x + 15.8$$

Erkovich. Prd. 2

D-t.

Unit 18 Review of Linear Equations – Form B

You have 15 minutes to answer as many questions as you can. Don't worry if you can't answer all the questions. Please show all your work. When the question asks you to explain, please explain your answer in plain English.

1) Solve for y

$$9 + 2y = 4$$

$$2y = -5$$

$$y = -2.5$$

2) Solve for x:

$$\frac{x}{-4} + 6 = -3$$

$$x + 24 = -12$$

$$x = -36$$

3) Solve for x:

$$2x + 5x = 6$$

$$\begin{array}{r} 7x = 6 \\ \hline x = \frac{6}{7} \end{array}$$

4) Solve for y:

$$4y + (-7) = 5 + 6y$$

Show your work here	For each step, explain why
$\begin{array}{l} \cancel{4y} + (-7) = 5 + \cancel{6y} \\ (-7) = 5 + 2y \end{array}$	

5) Solve for y:

$$7 + (-8y) = -3 + 2y$$

$\begin{array}{cc} -2y & -2y \end{array}$

$$7 - 8y = -3 + 2y$$

$$-7 - 7$$

$$10y = -10$$

$$y = -1$$

6) Solve for x:

$$-1.8x + 6.3 = 9.7 + 5.1x$$

Show your work here	For each step, explain why
$-1.8x + 6.3 = 9.7 + 5.1x$ $\begin{array}{r} 6.3 = 9.7 + 5.1x \\ -9.7 \quad -9.7 \\ \hline 3.4 = 3.3x \\ 3.3 \end{array}$ $x = 1$	

7) Solve for x:

$$-13.8 + 6.3x = 21.1x + (-5.9)$$

$$\begin{aligned} -13.8 &= 14.8x + (-5.9) \\ -13.8 &+ 5.9 = 14.8x + (-5.9) + 5.9 \\ -7.9 &= 14.8x \end{aligned}$$

8) Solve for y:

$$y + 8.2 = -3.4y + (-11.6)$$

Show your work here	For each step, explain why
$\begin{aligned} y + 8.2 &= -3.4y + (-11.6) \\ + 3.4y & \\ 4.4y + 8.2 &= (-11.6) \\ - 8.2 & \\ 4.4y &= -19.8 \end{aligned}$	

9) Solve for x :

$$\frac{3x+8}{7} = -12x$$

$$3x+8 = -84x$$

10) Solve for x :

$$12.6x + 21.1 + (-7.4x) = -9.2x + 15.8$$

Evkovich. Prd. 2

Ret.

Unit 18 Review of Linear Equations – Form B

You have 15 minutes to answer as many questions as you can. Don't worry if you can't answer all the questions. Please show all your work. When the question asks you to explain, please explain your answer in plain English.

1) Solve for y

$$9 + 2y = 4$$

$$-9 \quad -9$$

$$\frac{-9 + 9}{2} = \frac{4 - 9}{2}$$

$$y = -2.5$$

2) Solve for x:

$$\frac{x}{-4} + 6 = -3$$

$$6 - 6 \quad -6$$

$$\frac{x}{-4} = -9$$

$$x = 36$$

3) Solve for x:

$$2x + 5x = 6$$

$$\frac{7x - 6}{7} = \frac{6}{7}$$

$$x = 0.857$$

4) Solve for y:

$$4y + (-7) = 5 + 6y$$

Show your work here	For each step, explain why
$-4y$ $-4y$ $-7 = 5 + 2y$ $-12 = 2y$ $-6 = y$	<p>subtract $4y$</p> <p>subtract -7</p>

5) Solve for y:

$$-2y + 7 + (-8y) = -3 + 2y - 21$$

$$\begin{array}{r} 7 + (-10y) = -3 + 2y - 21 \\ -7 \quad \quad -7 \end{array}$$

$$-10y = -10$$

$$\begin{array}{r} -10 \quad -10 \\ \hline \end{array}$$

$$y = -20$$

6) Solve for x:

$$-1.8x + 6.3 = 9.7 + 5.1x$$

Show your work here	For each step, explain why
$\begin{array}{r} -1.8x \quad \quad +1.8x \\ 6.3 = 9.7 + 5.1x \\ -9.7 \quad \quad -9.7 \end{array}$	<p>Add $1.8x$ to both sides</p> <p>Subtract 9.7 from both sides</p>

7) Solve for x:

$$-13.8 + 6.3x = 21.1x + (-5.9)$$

$$-6.3x \quad -6.3x$$

$$-13.8 = 14.8x + (-5.9)$$

$$+5.9 \quad +5.9$$

$$-7.9 = 14.8x$$

$$\frac{-7.9}{14.8} = \frac{14.8x}{14.8}$$

$$0.5337 - x$$

8) Solve for y:

$$y + 8.2 = -3.4y + (-11.6)$$

Show your work here	For each step, explain why
$+3.4 \quad +3.4$ $4.4y + 8.2 = (-11.6)$ $-8.2 \quad -8.2$ $4.4y$	Add 3.4

9) Solve for x:

$$\frac{3x+8}{7} = -12x$$

$$3x + 8 = -84x$$
$$+ 3x \quad - 3x$$

$$8 = -87x$$

$$-87 = -87$$

$$x = -73$$

10) Solve for x:

$$12.6x + 21.1 + (-7.4x) = -9.2x + 15.8$$

Ekovitch. Prod. 2
Ret.

Unit 18 Review of Linear Equations – Form B

You have 15 minutes to answer as many questions as you can. Don't worry if you can't answer all the questions. Please show all your work. When the question asks you to explain, please explain your answer in plain English.

1) Solve for y

$$9 + 2y = 4$$

$$\begin{array}{r} 2y = -5 \\ \hline y = -2.5 \end{array}$$

$$y = -2.5$$

2) Solve for x:

$$\frac{x}{-4} + 6 = -3$$

$$\frac{x}{-4} = -9$$

$$x = 36$$

3) Solve for x:

$$2x + 5x = 6$$

$$\begin{array}{r} x = 6 \\ \hline 7 \quad 7 \end{array}$$

4) Solve for y:

$$4y + (-7) = 5 + 6y$$

Show your work here	For each step, explain why
$\begin{array}{r} 4y + (-7) = 5 + 6y \\ -4y \quad -4y \\ \hline -7 = 5 + 2y \\ 5 \quad -5 \\ \hline -12 = 2y \\ \hline -6 = y \end{array}$	

5) Solve for y:

$$7 + (-8y) = -3 + 2y$$

$$\begin{array}{r} 7 - 8y = -3 \\ -7 \quad -7 \end{array}$$

$$\begin{array}{r} -8y = -10 \\ \hline -8 \quad -8 \end{array}$$

$$y = 1$$

6) Solve for x:

$$-1.8x + 6.3 = 9.7 + 5.1x$$

Show your work here	For each step, explain why
$\begin{array}{r} 6.3 = 9.7 + 5.1x \\ 3.4 = 5.1x \\ \hline 3.4 \quad 5.1x \\ \hline 6.3 \end{array}$	

$$\begin{array}{r} 9.7 \\ -6.3 \\ \hline 3.4 \end{array}$$

7) Solve for x:

$$-13.8 + 6.3x = 21.1x + (-5.9)$$

$$-63$$

$$-13.8 = 14.8x - 5.9$$

$$\begin{array}{r} 7.9 \\ 14.8 \overline{) 11.9} \end{array}$$

8) Solve for y:

$$y + 8.2 = -3.4y + (-11.6)$$

Show your work here	For each step, explain why
$\begin{array}{r} 3.4y + 8.2 = -11.6 \\ -8.2 \\ \hline 3.4y = -19.8 \\ \hline 3.4 \end{array}$	

9) Solve for x:

$$\frac{3x+8}{7} = -12x$$

$$\begin{array}{r} 12 \\ 12 \\ 12 \\ \hline 84 \end{array}$$

$$3x + 8 = -84x$$

$$\begin{array}{r} 8 = -87x \\ \hline 87 \end{array}$$

10) Solve for x:

$$12.6x + 21.1 + (-7.4x) = -9.2x + 15.8$$

$$\begin{array}{r} 5.2 + 21.1 = -9.2x + 15.8 \\ -15.8 \quad -15.8 \\ \hline 5.3 \end{array}$$

$$\begin{array}{r} 5.2 + 5.3 = -9.2x \\ -5.2 \quad 5.2 \end{array}$$

$$\begin{array}{r} 5.3 \quad 14.4x \\ \hline 14.4 \quad 14.4 \end{array}$$