

**Unit 18 Review of Linear Equations – Form C**

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

$$\begin{array}{r} 6 + 8y = 1 \\ - 8 \quad - 8 \\ \hline 6 + y = -7 \\ - 6 \quad - 6 \\ \hline y = -13 \end{array}$$

2) Solve for x:

$$\begin{array}{r} \frac{x}{-3} + 4 = -7 \\ - 4 \quad - 4 \\ \hline \frac{x}{-3} = -11 \\ \times 3 \quad \times 3 \\ \hline x = -33 \end{array}$$

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3) Solve for x:

$$3x + 2x = 12$$

$$\frac{5x}{5} = \frac{12}{5}$$

$$2.2x$$

4) Solve for y:

$$6y + (-3) = 2 + 2y$$

Show your work here	For each step, explain why
$  \begin{array}{r}  6y + (-3) = 2 + 2y \\  + 2y \\  \hline  8y + (-3) = 2 \\  +3 \quad +3 \\  \hline  8y = 5 \\  \frac{8y}{8} = \frac{5}{8} \\  y = 0.625  \end{array}  $	<p>I added the two (y's) then + took the (-3) because it was in parentheses then I took 8y divided by 8 because I had to get rid of the 8y to solve for y. I then divided 5 by 8 to get my answer. My answer was 0.625</p>

5) Solve for y:

$$8 + (-5y) = -1 + 4y$$

$$\begin{array}{r} 8 + \frac{-14}{-8} = -1 \\ \frac{-8}{-9} \\ \hline 14 \end{array}$$

- 98

6) Solve for  $x$ :

$$-4.8x + 3.2 = 8.9 + 2.5x$$

Show your work here	For each step, explain why
$  \begin{array}{r}  -4.8 \\  +2.5 \\  \hline  -7.3  \end{array}  $ $  \begin{array}{r}  3.2 \\  -8.9 \\  \hline  -5.7  \end{array}  $ $  \begin{array}{r}  7.3 \\  -5.7 \\  \hline  1.6  \end{array}  $	<p>I added both positive numbers to get 5.7.</p> <p>Subtracted 3.2 from 8.9 to get 5.7.</p> <p>Subtracted 5.7 from 7.3 to get 1.6.</p>
1.98	1.98

7) Solve for x:

$$-7.4 + 17.3x = 8.1x + (-24.6)$$

$$\begin{array}{r} -7.4 + 17.3x = 8.1x + (-24.6) \\ + 7.4 \quad - 8.1x \quad + 24.6 \\ \hline 13.2x = -24.6 \\ \hline 7.4 \end{array}$$

$$2.34$$

8) Solve for y:

$$y + 9.9 = -6.3y + (-4.2)$$

Show your work here	For each step, explain why
$\begin{array}{r} 7.3y + 9.9 = -4.2 \\ + 6.3y \quad - 9.9 \\ \hline 7.3y = -14.1 \\ \hline 7 \end{array}$	<p>I took and added the y's together. and subtracted 9.9 off of (-4.2) and got 7</p>

9) Solve for x:

$$\frac{7x+5}{2} = -3x$$

$$7.1 = 4$$

$$\begin{array}{r} 2 \overline{) 15} \\ 14 \\ \hline 1 \end{array}$$

10) Solve for x:

$$16.3x + 18.4 + (-5.9x) = -7.5x + 17.3$$

$$\begin{array}{r} 16.3 \\ 5.9 \\ \hline 32.2 \\ 7.5 \\ \hline 24.7 \end{array}$$

$$\begin{array}{r} 17.3 \\ 18.4 \\ \hline 35.7 \\ 39.7 \\ \hline 75.4 \end{array}$$

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1) Solve for y

$$6 + 8y = 1$$

$$y = -7$$

2) Solve for x:

$$\frac{x}{-3} + 4 = -7$$

$$x = -15$$

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3) Solve for  $x$ :

$$3x + 2x = 12$$

$$x = 2$$

4) Solve for  $y$ :

$$6y + (-3) = 2 + 2y$$

Show your work here	For each step, explain why

5) Solve for y:

$$8 + (-5y) = -1 + 4y$$

$$y = 0$$

6) Solve for x:

$$-4.8x + 3.2 = 8.9 + 2.5x$$

Show your work here	For each step, explain why

7) Solve for  $x$ :

$$-7.4 + 17.3x = 8.1x + (-24.6)$$

$$x = -9$$

8) Solve for  $y$ :

$$y + 9.9 = -6.3y + (-4.2)$$

Show your work here	For each step, explain why

I

9) Solve for x:

$$\frac{7x+5}{2} = -3x$$

$$x = 13$$

10) Solve for x:

$$16.3x + 18.4 + (-5.9x) = -7.5x + 17.3$$

**Unit 18 Review of Linear Equations – Form C**

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

$$6 + 8y = 1$$

$$\begin{array}{r} -6 \quad -6 \\ 8y = 5 \\ \hline y = \frac{5}{8} \end{array}$$

2) Solve for x:

$$\begin{array}{r} -5 - \frac{x}{-3} + 4 = -7 \\ x + 4 = 21 \\ -4 \quad -4 \\ \hline x = 17 \end{array}$$

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Pre —  
Eukovich prod. 2



3) Solve for x:

$$3x + 2x = 12$$

$$\begin{array}{r} 3x + 2x = 12 \\ -2x \quad -2x \\ \hline 1x = 12 \\ \hline 1 \quad 1 \end{array}$$

$$x = 12$$

4) Solve for y:

$$6y + (-3) = 2 + 2y$$

Show your work here	For each step, explain why
$\begin{array}{r} 6y + (-3) = 2 + 2y \\ -2y \quad -2y \\ \hline 4y + (-3) = 2 \\ -3 \quad -3 \\ \hline 4y = 1 \\ \hline 4 \quad 4 \\ \hline y = 1 \end{array}$	<p>minused the less y then minused the -3 to 2 then divided to get <math>y = 1</math></p>

5) Solve for y:

$$8 + (-5y) = -1 + 4y$$

$$\begin{array}{r} -5 \\ -8 \\ \hline 3 = -1 + 14 \end{array}$$

$$\begin{array}{r} +1 \\ +1 \\ \hline 9 = -14 \end{array}$$

$$\begin{array}{r} -14 \\ -14 \\ \hline -9 = 41 \end{array}$$

$$-9 = 41$$

6) Solve for x:

$$-4.8x + 3.2 = 8.9 + 2.5x$$

Show your work here	For each step, explain why
$\begin{array}{r} -4.8x + 3.2 = 8.9 + 2.5x \\ +4.8 \quad \quad \quad +4.8 \\ \hline 3.2 = 8.9 + 7.3 \\ -8.9 \quad -8.9 \\ \hline -5.7 = 7.3x \\ \hline 7.3 \quad 7.3 \\ \hline -x \end{array}$	<p>I don't know how to explain the reason</p>



7) Solve for x:

$$-7.4 + 17.3x = 8.1x + (-24.6)$$

$$\begin{array}{r} -7.4 + 17.3x = (-24.6) \\ +7.4 \quad \quad \quad +7.4 \\ \hline 9.2x = -17.2 \end{array}$$

$$\begin{array}{r} 9.2x = -17.2 \\ \hline 9.2x \quad 9.2x \\ \hline \end{array}$$

$$x = ?$$

8) Solve for y:

$$y + 9.9 = -6.3y + (-4.2)$$

Show your work here	For each step, explain why
$\begin{array}{r} y + 9.9 = -6.3y + (-4.2) \\ +6.3 \quad \quad +6.3 \\ \hline 6.4y + 9.9 = (-4.2) \\ -9.9 \quad -9.9 \\ \hline 6.4y = -14.1 \\ \hline 6.4y \quad 6.4y \\ \hline \end{array}$ $= y$	<p>I did everything that I said I in number 4</p>

9) Solve for x:

$$2 \cdot \frac{7x+5}{2} = -3x \cdot 2$$

$$\begin{array}{r} 7x+5 = -6x \\ +6x \quad \quad +6x \\ \hline 13x+5 \end{array}$$

10) Solve for x:

$$16.3x + 18.4 + (-5.9x) = -7.5x + 17.3$$

$$\begin{array}{r} +7.5 \quad \quad \quad +7.5 \\ \hline 23.8x + 18.4 + -5.9x = 17.3 \\ +5.9x \quad \quad \quad +5.9x \\ \hline 29.7x + 18.4 = 17.3 \\ -18.4 \quad -18.4 \\ \hline -1.1 \end{array}$$

## Unit 18 Review of Linear Equations – Form C

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

$$\begin{array}{r} 6 + 8y = 1 \\ -6 \quad -6 \end{array}$$

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

$$\boxed{y = -\frac{5}{8}}$$

2) Solve for x:

$$\begin{array}{r} \frac{x}{-3} + 4 = -7 \\ -4 \quad -4 \end{array}$$

$$\begin{array}{r} \frac{x}{-3} \quad -11 \\ -3 \times -3 \quad \times 3 \end{array}$$

$$\boxed{x = 33}$$

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Evkovich pnd. 2



3) Solve for x:

$$3x + 2x = 12$$

$$\frac{5x}{5} = \frac{12}{5}$$

$$x = \frac{12}{5}$$

4) Solve for y:

$$6y + (-3) = 2 + 2y$$

Show your work here	For each step, explain why
<del><math>6y + (-3) = 2 + 2y</math></del> <del><math>-2y</math></del> $4y + (-3) = 2$ $+3 \quad +3$ $4y = 5$ $\frac{4y}{4} = \frac{5}{4}$ $y = \frac{5}{4}$	

5) Solve for y:

$$8 + (-5y) = -1 + 4y$$

$+5y$        $-5y$

$$8 = -1 + 9y$$

$$\begin{array}{r} +1 \\ \hline 9 = 7y \end{array}$$

$$\boxed{1 = y}$$

6) Solve for x:

$$-4.8x + 3.2 = 8.9 + 2.5x$$

Show your work here	For each step, explain why
$\begin{array}{r} -4.8x + 3.2 = 8.9 + 2.5x \\ -2.5x \quad -2.5x \\ \hline -7.3x + 3.2 = 8.9 \\ -3.2 \quad -3.2 \\ \hline -7.3x = 5.7 \\ \frac{-7.3x}{-7.3} = \frac{5.7}{-7.3} \\ x = \frac{5.7}{-7.3} \end{array}$	

7) Solve for x:

$$-7.4 + 17.3x = 8.1x + (-24.6)$$

$$-2.1x - 24.6$$

$$\begin{array}{r} -7.4 + 17.3x = -24.6 \\ +7.4 \quad \quad \quad +7.4 \end{array}$$

$$\begin{array}{r} 9.2x = -17.2 \\ \hline 9.2 \quad \quad 9.2 \end{array}$$

$$x = -\frac{17.2}{9.2}$$

8) Solve for y:

$$y + 9.9 = -6.3y + (-4.2)$$

Show your work here	For each step, explain why
$\begin{array}{r} y + 9.9 = -6.3y + (-4.2) \\ -y \quad \quad \quad -y \\ \hline 9.9 = -7.3y + (-4.2) \\ +4.2 \quad \quad \quad +4.2 \\ \hline 14.1 = -7.3y \\ \hline 14.1 = -7.3y \\ -7.3 \quad \quad -7.3 \\ \hline \frac{14.1}{-7.3} = \frac{-7.3y}{-7.3} \\ \hline \frac{14.1}{-7.3} = y \end{array}$	

9) Solve for x:

$$\frac{7x+5}{2} = -3x$$

$$\frac{10x+9}{2} = 0$$

$$\frac{10x}{2} = -9$$

$$\frac{10x}{10} = \frac{-9}{10}$$

$$x = -1$$

10) Solve for x:

$$16.3x + 18.4 + (-5.9x) = -7.5x + 17.3$$

$$10.4x + 18.4 = -7.5x + 17.3$$

$$10.4x + 18.4 = 17.3$$

$$10.4x = -1.1$$

$$x = \frac{-1.1}{10.4}$$



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1) Solve for y

$$6 + 8y = 1$$

2) Solve for x:

$$\frac{x}{-3} + 4 = -7$$

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3) Solve for  $x$ :

$$3x + 2x = 12$$

4) Solve for  $y$ :

$$6y + (-3) = 2 + 2y$$

Show your work here	For each step, explain why

5) Solve for y:

$$8 + (-5y) = -1 + 4y$$

6) Solve for x:

$$-4.8x + 3.2 = 8.9 + 2.5x$$

Show your work here	For each step, explain why

7) Solve for  $x$ :

$$-7.4 + 17.3x = 8.1x + (-24.6)$$

8) Solve for  $y$ :

$$y + 9.9 = -6.3y + (-4.2)$$

Show your work here	For each step, explain why

9) Solve for  $x$ :

$$\frac{7x+5}{2} = -3x$$

10) Solve for  $x$ :

$$16.3x + 18.4 + (-5.9x) = -7.5x + 17.3$$

## Unit 18 Review of Linear Equations – Form C

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

$$6 + 8y = 1$$

$$6 - 6 \quad -6$$

$$\frac{8y}{8} = \frac{-5}{8}$$

$$y = -0.625$$

$$y = -0.6$$

2) Solve for x:

$$\frac{x}{-3} + 4 = -7$$

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

$$\frac{x}{-3} = -11$$

$$x = 33$$

CWCTZ  
pre-  
Evkovich prod. 2





3) Solve for x:

$$3x + 2x = 12$$

$$\frac{5x}{5} = \frac{12}{5} \quad \begin{array}{r} 2.4 \\ 5 \overline{) 12.0} \\ \underline{-10} \phantom{0} \\ 20 \end{array}$$

$$x = 2.4$$

4) Solve for y:

$$6y + (-3) = 2 + 2y$$

Show your work here	For each step, explain why
$6y + (-3) = 2 + 2y$ $18y = 2 + 2y$ $\frac{16}{2} \quad \frac{24}{2}$ $x = 8$	<p>First I took 6y the - 3 got 18 the I subtracted by two the divid 2y div.d 16.</p>

5) Solve for y:

$$8 + (-5y) = -1 + 4y$$

$$9 + (-5) + 4$$

$$\frac{q}{a} \quad \frac{q_y}{a}$$

$$y = 1$$

6) Solve for  $x$ :

$$-4.8x + 3.2 = 8.9 + 2.5x$$

Show your work here	For each step, explain why
$  \begin{array}{r}  -1.8x + 3.2 = 8.4125x \\  -3.2 \quad -3.2 \\  \hline  -1.8x + 5.7 + 2.5x \\  +2.5x \\  \hline  7.3  \end{array}  $ $  \begin{array}{r}  2.92 \overline{) 7.3.00} \\  \underline{50} \phantom{00} \\  230 \\  \underline{225} \\  50  \end{array}  $ $x = 2.92$	<p>I subtracted 3.2 by both side combined like terms then divided by what was left.</p>

7) Solve for x:

$$-7.4 + 17.3x = 8.1x + (-4.6)$$

$$17.3x - 8.1x = 7.4 - 4.6$$

$$9.2x = 2.8$$

$$x = \frac{2.8}{9.2}$$

$$\frac{2.8}{9.2} = \frac{17.2}{254}$$

$$254 \overline{) 17.20}$$

$$x = ?$$

8) Solve for y:

$$y + 9.9 = -6.3y + (-4.2)$$

Show your work here	For each step, explain why
$y + 9.9 = -6.3y + (-4.2)$ $-9.9$ $y = -6.3y + 5.7$ $+6.3y$ $x = 1.6$	<p>I subtracted from each side then combined like terms and then d.v.d</p>

9) Solve for x:

$$\frac{7x+5}{2} = -3x$$

$$- \frac{12}{2}$$

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

$$x = -2$$

10) Solve for x:

$$16.3x + 18.4 + (-5.9x) = -7.5x + 17.3$$

$$\begin{array}{r} 16.3x + 18.4 - 5.9x = -7.5x + 17.3 \\ \hline 10.4x + 18.4 = -7.5x + 17.3 \end{array}$$

$$\begin{array}{r} 10.4x + 18.4 = -7.5x + 17.3 \\ \hline 10.4x + 18.4 + 7.5x = -7.5x + 17.3 + 7.5x \\ 17.9x + 18.4 = 17.3 \\ \hline 17.9x = 17.3 - 18.4 \\ 17.9x = -1.1 \\ \hline x = \frac{-1.1}{17.9} \end{array}$$

$$x = -0.061452514$$

$$\begin{array}{r} 134 \\ \times 4 \\ \hline 536 \end{array} \quad \begin{array}{r} 134 \\ \times 3 \\ \hline 402 \end{array}$$

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1) Solve for y

$$\begin{array}{r} 6 + 8y = 1 \\ -6 \quad -6 \\ \hline 8y = -5 \\ \frac{8y}{8} = \frac{-5}{8} \\ y = -\frac{5}{8} \end{array}$$
$$\begin{array}{r} 4.25 \\ 81 - 5.00 \\ \hline 48.90 \\ 20 \\ \hline 16 \checkmark \\ 40 \end{array}$$

$y = -\frac{5}{8}$

2) Solve for x:

$$\begin{array}{r} \frac{x}{-3} + 4 = -7 \\ -4 \quad -4 \\ \hline \frac{x}{-3} = -3 \quad (-3) \\ \hline x = 9 \end{array}$$

CWCTZ  
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tutorovich prod. 2



3) Solve for x:

$$3x + 2x = 12$$

$$\frac{5x = 12}{5 \quad 5}$$

$$x = 2.4$$

$$\begin{array}{r} 2.4 \\ 5 \overline{)120} \\ \underline{10} \phantom{0} \\ 20 \end{array}$$

4) Solve for y:

$$6y + (-3) = 2 + 2y$$

Show your work here	For each step, explain why
$6y + (-3 - -3) = (2 + 3) + 2y$	You subtract both sides by -3
$\frac{6y}{6} = 2y$	Get rid of the 6 by dividing by its reciprocal leaving y.
$\frac{6}{6}y = 2y$	Get rid of the y by dividing by y leaving 2/
$y = 2$	Answer

5) Solve for y:

$$8 + (-5y) = -1 + 4y$$

6) Solve for x:

$$-4.8x + 3.2 = 8.9 + 2.5x$$

Show your work here	For each step, explain why



7) Solve for x:

$$\begin{array}{r}
 -7.4 + 17.3x = 8.1x + (-24.6) \\
 -7.4 \qquad \qquad + 7.4 \\
 \hline
 17.2 \\
 17.3x = 9x + 17.2 \\
 -9x \quad -17.2 \\
 \hline
 17.3x = 9x
 \end{array}$$

17.3x = 9x

$\left(\frac{1}{17.3}\right)x = 9x$   
 $9 = x$

8) Solve for y:

$$y + 9.9 = -6.3y + (-4.2)$$

Show your work here	For each step, explain why

9) Solve for x:

$$\frac{7x+5}{2} = -3x$$

$$7x + -3 = -3x$$

$$- -3 \quad - -3$$

$$7x = x \left( \frac{1}{x} \right)$$

$$7 = x$$

10) Solve for x:

$$16.3x + 18.4 + (-5.9x) = -7.5x + 17.3$$

$$-22.2x + 18.4 = -7.5x + 17.3$$

$$18.4 = -4.7x + 17.3$$

$$-17.3 \quad -17.3$$

$$1.1 = -4.7x$$

$$\frac{1.1}{4.7} = \frac{-4.7x}{-4.7}$$

$$4.7 \overline{) 1.1000}$$

$$\underline{94} \phantom{00}$$

$$160$$

$$\underline{141} \phantom{0}$$

$$190$$

$$4.7 \overline{) 1.1000}$$

$$\underline{94} \phantom{00}$$

$$160$$

$$\underline{141} \phantom{0}$$

$$190$$

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1) Solve for y

$$6 + 8y = 1$$

$$8y = -5$$

$$y = -\frac{5}{8}$$

2) Solve for x:

$$\frac{x}{-3} + 4 = -7$$

$$\frac{x}{-3} = -11$$

$$x = 33$$

CWCTZ  
pre -  
Evkovich prod. 2



3) Solve for x:

$$3x + 2x = 12$$

$$5x = 12$$

$$x = \frac{12}{5}$$

4) Solve for y:

$$6y + (-3) = 2 + 2y$$

Show your work here	For each step, explain why
$6y + (-3) = 2 + 2y$ $3y + 3 = 2 + 2y$ $y = 9$	<p>add 3 to both sides</p> <p>get 3y</p> <p>sub, 2 from both sides</p> <p>9 = 2 + 2y</p> <p>sub, 2 from both sides</p>

5) Solve for y:

$$8 + (-5y) = -1 + 4y$$

$$-13 = 9y$$

$$y = -1.44$$

$$-2.6$$

6) Solve for x:

$$-4.8x + 3.2 = 8.9 + 2.5x$$

Show your work here	For each step, explain why
$  \begin{array}{r}  -4.8x + 3.2 = 8.9 + 2.5x \\  -3.2 \quad -3.2 \quad -8.9 \quad -2.5x \\  \hline  -8x \quad \quad -5.7 \\  \hline  -1.25x  \end{array}  $	<p>1. Subtract 3.2 from both sides</p> <p>2. Subtract 8.9 from both sides</p>

7) Solve for  $x$ :

$$-7.4 + 17.3x = 8.1x + (-24.6)$$

8) Solve for  $y$ :

$$y + 9.9 = -6.3y + (-4.2)$$

Show your work here	For each step, explain why

9) Solve for  $x$ :

$$\frac{7x+5}{2} = -3x$$

10) Solve for  $x$ :

$$16.3x + 18.4 + (-5.9x) = -7.5x + 17.3$$



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1) Solve for y

$$6 + 8y = 1$$
$$\begin{array}{r} -6 \\ \hline 8y = -5 \\ y = -\frac{5}{8} \end{array}$$

2) Solve for x:

$$\frac{x}{-3} + 4 = -7$$
$$x = 3$$

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pre -  
Eukovich prel. 2



3) Solve for x:

$$\begin{array}{r} 3x + 2x = 12 \\ -3 \quad -3 \end{array}$$

$$\frac{2x}{2} = \frac{9}{2}$$

$$x = 4.5$$

$$\begin{array}{r} 4.5 \\ 2 \overline{) 9.0} \\ \underline{- 9.0} \\ 0 \end{array}$$

4) Solve for y:

$$6y + (-3) = 2 + 2y$$

Show your work here	For each step, explain why
$\begin{array}{r} 6y + (-3) = 2 + 2y \\ -6 \quad -6 \end{array}$ $\begin{array}{r} 3 = 2 + 4y \\ -2 \quad -2 \end{array}$ $\begin{array}{r} 1 = 4y \\ -4 \quad -4 \end{array}$ $y = \frac{1}{4}$	<p>sub. 6</p> <p>sub. 2</p> <p>divide by 4</p>

5) Solve for y:

$$8 + (-5y) = -1 + 4y$$

$$3 = -1 + 4y$$

$$-3 \quad -3$$

$$1 + 1y$$

$$2y$$

$$\begin{array}{r} 11.8 \\ -11.8 \\ \hline 0 \end{array}$$

6) Solve for x:

$$-4.8x + 3.2 = 8.9 + 2.5x$$

Show your work here	For each step, explain why
$\begin{array}{r} -4.8x + 3.2 = 8.9 + 2.5x \\ -4.8x - 4.8 \\ \hline 3.2 = 8.9 + 2.5x \\ -2.4 \quad -2.4 \\ \hline 0.9 + 2.5x \\ \hline 0.9 \end{array}$	<p>sub. 4.8</p> <p>sub. 2.4</p> <p>divide by 1</p>

$$\begin{array}{r} 0.9 \\ \hline 0.9 \\ \hline 0 \end{array}$$

7) Solve for x:

$$-7.4 + 17.3x = 8.1x + (-24.6)$$

$$9.9x - 21x + (-24.6)$$

$$-2.2x + (-24.6)$$

$$x = 1.1$$

$$\begin{array}{r} 0.16 \\ \times 7.13 \\ \hline 7.41 \end{array}$$

$$\begin{array}{r} 2 \\ \times 8.11 \\ \hline -9.91 \\ \hline 2.2 \end{array}$$

$$\begin{array}{r} 1.01 \\ 22 \overline{) 22.22} \\ \underline{22} \\ 26 \\ \underline{22} \\ 4 \end{array}$$

$$\begin{array}{r} 6.3 \\ -9.9 \\ \hline -3.6 \end{array}$$

8) Solve for y:

$$y + 9.9 = -6.3y + (-4.2)$$

Show your work here	For each step, explain why
$\begin{array}{r} y + 9.9 - 6.3y + (-4.2) \\ -9.9 - 9.9 \\ \hline y + -3.6y + (-4.2) \\ 3.6y + (-4.2) \\ \hline 3.6 \quad 3.6 \end{array}$ $\begin{array}{r} 3.6 \overline{) 12.96} \\ \underline{3.6} \\ 6 \end{array}$	<p>sub. 9.9</p> <p>divide by 3.6</p>

9) Solve for x:

$$\frac{7x+5}{2} = -3x + 6$$

$$2 \cdot 7x + 5 = 6x$$

$$14x + 5 = 6x$$

$$-14 \quad -14$$

$$\begin{array}{r} 9x + 5 \\ -6x \\ \hline 3x + 5 \end{array}$$

$$\begin{array}{r} 1.5 \\ 6x + 5 \\ -6x \\ \hline 30 \end{array}$$

$$x = 1.5$$

10) Solve for x:

$$16.3x + 18.4 + (-5.9x) = -7.5x + 17.3$$

$$-16.3 \quad -16.3$$

$$2.1 + (-5.9x) = -7.5x + 17.3$$

$$-7.5 \quad -7.5$$

$$\begin{array}{r} 17.3 \\ -7.5 \\ \hline 9.8 \end{array}$$

$$2.1 + (-5.9x) = -7.5x + 17.3$$

$$-2.1 \quad -2.1$$

$$-10.2$$

$$\begin{array}{r} 3.8x - 10.2 \\ -3.8x \\ \hline -10.2 \end{array}$$

**Unit 18 Review of Linear Equations – Form C**

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

$$6 + 8y = 1$$

$$\begin{array}{r} 6 + 8y = 1 \\ -6 \phantom{+ 8y} \\ \hline 8y = -5 \\ \phantom{8y} : 8 \\ \hline y = -\frac{5}{8} \end{array}$$

2) Solve for x:

$$\frac{x}{-3} + 4 = -7$$

$$\begin{array}{r} \frac{x}{-3} + 4 = -7 \\ -4 \phantom{+ 4} \\ \hline \frac{x}{-3} = -11 \\ \phantom{\frac{x}{-3}} : -3 \\ \hline x = 33 \end{array}$$

CWCTZ  
pre -  
Evkarich prod. 2





3) Solve for x:

$$3x + 2x = 12$$

$$5x = 12$$

$$x = \frac{12}{5}$$

4) Solve for y:

$$6y + (-3) = 2 + 2y$$

Show your work here	For each step, explain why
$6y - 3 = 2 + 2y$ $6y - 2y = 2 + 3$ $4y = 5$ $y = \frac{5}{4}$	<p>add 3 to both sides</p> <p>subtract 2y from both sides</p> <p>divide both sides by 4</p>

5) Solve for y:

$$8 + (-5y) = -1 + 4y$$

$$\begin{aligned} 8 - 5y &= -1 + 4y \\ 8 - 5y + 5y &= -1 + 4y + 5y \\ 8 &= -1 + 9y \\ 8 + 1 &= -1 + 9y + 1 \\ 9 &= 9y \\ \frac{9}{9} &= \frac{9y}{9} \\ 1 &= y \end{aligned}$$

6) Solve for x:

$$-4.8x + 3.2 = 8.9 + 2.5x$$

Show your work here	For each step, explain why
$\begin{aligned} -4.8x + 3.2 &= 8.9 + 2.5x \\ -4.8x + 3.2 - 2.5x &= 8.9 + 2.5x - 2.5x \\ -7.3x + 3.2 &= 8.9 \\ -7.3x + 3.2 - 3.2 &= 8.9 - 3.2 \\ -7.3x &= 5.7 \\ \frac{-7.3x}{-7.3} &= \frac{5.7}{-7.3} \\ x &= -0.78 \end{aligned}$	$\begin{aligned} -4.8x + 3.2 &= 8.9 + 2.5x \\ -4.8x + 3.2 - 2.5x &= 8.9 + 2.5x - 2.5x \\ -7.3x + 3.2 &= 8.9 \\ -7.3x + 3.2 - 3.2 &= 8.9 - 3.2 \\ -7.3x &= 5.7 \\ \frac{-7.3x}{-7.3} &= \frac{5.7}{-7.3} \\ x &= -0.78 \end{aligned}$

7) Solve for x:

$$-7.4 + 17.3x = 8.1x + (-24.6)$$

-7.4

-24.6

$$17.3x - 8.1x = -24.6 + 7.4$$

9

$$9.2x = -17.2$$

$$x = -1.87$$

8) Solve for y:

$$y + 9.9 = -6.3y + (-4.2)$$

Show your work here	For each step, explain why
$y + 9.9 = -6.3y + (-4.2)$ $-9.9$ $y + 9.9 - 9.9 = -6.3y + (-4.2) - 9.9$ $y = -6.3y - 14.1$	<p>isolate</p>

9) Solve for  $x$ :

$$\frac{7x+5}{2} = -3x$$

10) Solve for  $x$ :

$$16.3x + 18.4 + (-5.9x) = -7.5x + 17.3$$

$$10.4x + 18.4 = -7.5x + 17.3$$

## Unit 18 Review of Linear Equations – Form C

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

$$\begin{array}{r} 6 + 8y = 1 \\ -6 \quad -6 \\ \hline 8y = -5 \\ \hline y = -\frac{5}{8} \end{array}$$

2) Solve for x:

$$\begin{array}{r} \frac{x}{-3} + 4 = -7 \\ -3 \quad -4 \quad -4 \\ \hline \frac{x}{-3} = -11 \end{array}$$

$$(3) \frac{x}{-3} = -11 (3)$$

$$x = 33$$

CWCTZ  
pre-  
Eukovich pvd. 2



3) Solve for x:

$$3x + 2x = 12$$

$$\frac{5x}{5} = \frac{12}{5}$$

$$x = 2\frac{2}{5}$$

4) Solve for y:

$$6y + (-3) = 2 + 2y$$

Show your work here	For each step, explain why
$6y + (-3) = 2 + 2y$ $-2 \quad \quad \quad -2$ $4y + (-3) = 2$ $-3 \quad -3$ $4y = -1$ $\frac{4y}{4} = \frac{-1}{4}$ $y = -\frac{1}{4}$	<p>Combined like terms subtract the smaller one</p> <p>Subtracted 3 to get rid of it</p> <p>divided by 4y</p> $-\frac{1}{4}$

5) Solve for y:

$$8 + (-5y) = -1 + 4y$$

$$\begin{array}{r} -4y \\ -4y \end{array}$$

$$\begin{array}{r} 8 + (-14) = -1 \\ -8 \quad -8 \end{array}$$

$$\begin{array}{r} -14 = -9 \\ -1 \quad -1 \end{array}$$

$$y = 9$$

6) Solve for x:

$$-4.8x + 3.2 = 8.9 + 2.5x$$

Show your work here	For each step, explain why
$\begin{array}{r} -4.8x + 3.2 = 8.9 + 2.5x \\ -2.5x \end{array}$ $\begin{array}{r} -7.3x + 3.2 = 8.9 \\ -3.2 \quad -3.2 \end{array}$ $\begin{array}{r} -7.3x = 5.7 \\ -7.3 \quad -7.3 \end{array}$ $x = \frac{5.7}{-7.3}$	<p>Combined like terms</p> <p>Subtract the smaller one to get rid of it</p>



7) Solve for x:

$$-7.4 + 17.3x = 8.1x + (-24.6)$$

$$\begin{array}{r} -7.4 + 15.4x = 24.6 \\ + 7.4 \quad \quad + 7.4 \end{array}$$

$$\begin{array}{r} 10 \\ 24.6 \\ 7.4 \\ \hline 17.2 \end{array}$$

$$\begin{array}{r} 15.4x = 17.2 \\ \hline 15.4 \quad 17.2 \end{array}$$

$$\begin{array}{r} 10 \\ 17.2 \\ 15.4 \\ \hline 20 \end{array}$$

$$x = 1.20$$

8) Solve for y:

$$y + 9.9 = -6.3y + (-4.2)$$

Show your work here	For each step, explain why
$\begin{array}{r} y + 9.9 = -6.3y + (-4.2) \\ -y \quad \quad -y \end{array}$	subtract the smaller y from the larger y
$\begin{array}{r} 9.9 = -7.3y + (-4.2) \\ + 4.2 \quad \quad + 4.2 \end{array}$	Add +4.2 to get rid of -4.2
$\begin{array}{r} 15.1 = -7.3y \\ -7.3 \quad \quad -7.3 \end{array}$	
$2.5 = y$	

$$\begin{array}{r} 2 \\ 7.3 \overline{) 15.1} \\ \underline{14.6} \phantom{0} \\ 50 \phantom{0} \\ \underline{50} \phantom{0} \\ 0 \end{array}$$

9) Solve for x:

$$\frac{7x+5}{2} = -3x$$

$$7x+5 = -6x$$

$$(2) \frac{7x+5}{2} = -3x(2)$$

$$14x+10 \quad -6x$$

$$-10 \quad -10$$

$$\frac{14x}{14} = \frac{16x}{14}$$

$$1.2 = x$$

0 15 13

$$16.3$$

$$-5.9$$

$$4 \text{ of } 414$$

$$-7.5$$

$$2.9$$

10) Solve for x:

$$16.3x + 18.4 + (-5.9x) = -7.5x + 17.3$$

$$\frac{2.9x}{2.9} = \frac{17.3}{2.9}$$

$$x = 5.1$$

$$\begin{array}{r} 5.1 \\ 2.9 \overline{) 14.79} \\ \underline{14.5} \phantom{0} \\ 29 \end{array}$$

$$\begin{array}{r} 5.1 \\ 2.9 \overline{) 14.79} \\ \underline{14.5} \phantom{0} \\ 29 \end{array}$$

## Unit 18 Review of Linear Equations – Form C

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

$$6 + 8y = 1$$

$$\begin{array}{r} 8y = -5 \\ \hline y = -\frac{5}{8} \end{array}$$

2) Solve for x:

$$\frac{x}{-3} + 4 = -7$$

$$\begin{array}{r} \frac{x}{-3} = -11 \\ \times 3 \\ \hline x = -33 \end{array}$$

CWCTC  
PVE -  
Etkovich pvd. 2



3) Solve for x:

$$3x + 2x = 12$$

$$\frac{5x = 12}{5}$$

$$x = 2.4$$

4) Solve for y:

$$6y + (-3) = 2 + 2y$$

Show your work here	For each step, explain why
$6y + 3 = 2 + 2y$ $4y + (-3) = 2$ $-3 = 2$ $\frac{0}{4} = \frac{1}{4}$ $y = \frac{1}{4}$	<p>add y as the minus sign</p> <p>add three as getting y on one</p> <p>divide by 4 as getting y on one</p> <p>...</p> <p>...</p>

5) Solve for y:

$$8 + (-5y) = -1 + 4y$$

$$8 = 4 + 9y$$

$$4 = 9y$$

$$4 = 9y$$

$$y = \frac{4}{9}$$

6) Solve for x:

$$-4.8x + 3.2 = 8.9 + 2.5x$$

Show your work here	For each step, explain why
$  \begin{array}{r}  -4.8x + 3.2 = 8.9 + 2.5x \\  + 4.8x \quad - 3.2 \\  \hline  3.2 - 8.9 = 7.3x \\  -5.7 = 7.3x \\  \hline  -5.7 = 7.3x \\  \div 7.3 \quad \div 7.3 \\  \hline  -0.78 = x  \end{array}  $	<p>1. Subtract <math>4.8x</math> from both sides.</p> <p>2. Subtract <math>3.2</math> from both sides.</p> <p>3. Divide <math>7.3</math> from both sides.</p>

7) Solve for x:

$$-7.4 + 17.3x = 8.1x + (-24.6)$$

$$-7.4 + 9.2x = -24.6$$

$$\frac{9.2x}{9.2} = \frac{-32}{9.2}$$

$$x = -3.478$$

8) Solve for y:

$$y + 9.9 = -6.3y + (-4.2)$$

Show your work here	For each step, explain why
$y + 9.9 = -6.3y - 4.2$ $14.2y = -14.1$ $y = -0.993$	<p>Added 6.3y to both sides</p> <p>Divided by 14.2</p> <p>Result</p>

9) Solve for x:

$$\frac{7x+5}{2} = -3x$$

$$7x + 5 = -6x$$

$$7x + 6x = -5$$

$$13x = -5$$

$$x = -\frac{5}{13}$$

$$x = -\frac{5}{13}$$

10) Solve for x:

$$16.3x + 18.4 + (-5.9x) = -7.5x + 17.3$$

$$+ 5.9x$$

$$+ 5.9x$$

$$+ 10.4$$

$$- 1.6$$

$$+ 17.3$$

$$+ 17.3$$

$$21.6$$

$$16.3x + 18.4 + (-5.9x) = -7.5x + 17.3$$

$$\frac{16.3x + 18.4 + (-5.9x)}{10.4} = \frac{-7.5x + 17.3}{10.4}$$

$$x = 21.636$$



## Unit 18 Review of Linear Equations – Form C

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

$$6 + 8y = 1$$

$$-6 \quad -6$$

$$8y = -5$$

$$\frac{8}{8} \quad \frac{-5}{8}$$

$$y = -\frac{5}{8}$$

2) Solve for x:

$$\frac{x}{-3} + 4 = -7$$

CWCTE  
pre -  
Ehovich prod. 2



3) Solve for x:

$$3x + 2x = 12$$

$$\begin{array}{r} 5x = 12 \\ 5 \quad 5 \\ \hline 10 \quad 22 \end{array}$$

4) Solve for y:

$$6y + (-3) = 2 + 2y$$

Show your work here	For each step, explain why
$\begin{array}{r} 6y + (-3) = 2 \\ + 3 \quad + 3 \\ \hline 6y = 5 \\ 6 \quad 6 \\ \hline y = 1.0 \end{array}$	<p>add like terms</p>

5) Solve for y:

$$8 + (-5y) = -1 + 4y$$

$$\begin{array}{r} 8 + (-5y) = -1 \\ -8 \quad -8 \\ \hline -5y = -9 \\ \hline y = 9 \end{array}$$

6) Solve for x:

$$-4.8x + 3.2 = 8.9 + 2.5x$$

Show your work here	For each step, explain why

7) Solve for  $x$ :

$$-7.4 + 17.3x = 8.1x + (-24.6)$$

8) Solve for  $y$ :

$$y + 9.9 = -6.3y + (-4.2)$$

Show your work here	For each step, explain why

9) Solve for  $x$ :

$$\frac{7x+5}{2} = -3x$$

10) Solve for  $x$ :

$$16.3x + 18.4 + (-5.9x) = -7.5x + 17.3$$

## Unit 18 Review of Linear Equations – Form C

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

$$-4 + 8y = \frac{1}{6}$$

$$8y = -\frac{23}{6}$$

$$y = -\frac{23}{48}$$

2) Solve for x:

$$\frac{x}{-3} + 4 = -7$$

$$\frac{x}{-3} = -11$$

$$x = 33$$

CWCTZ  
pre —  
Eukovich pvd. 2





3) Solve for x:

$$3x + 2x = 12$$

$$5x = 12$$

$$x = 2.4$$

4) Solve for y:

$$6y + (-3) = 2 + 2y$$

Show your work here	For each step, explain why
$6y + (-3) = 2 + 2y$	

5) Solve for y:

$$8 + (-5y) = -1 + 4y$$

$$-9 - 5y = -8 + 4y$$

$$-9(-5y) = 4y$$

$$-4y = 4y$$

$$y = 1$$

6) Solve for x:

$$-4.8x + 3.2 = 8.9 + 2.5x$$

Show your work here	For each step, explain why

7) Solve for  $x$ :

$$-7.4 + 17.3x = 8.1x + (-24.6)$$

8) Solve for  $y$ :

$$y + 9.9 = -6.3y + (-4.2)$$

Show your work here	For each step, explain why

9) Solve for  $x$ :

$$\frac{7x+5}{2} = -3x$$

10) Solve for  $x$ :

$$16.3x + 18.4 + (-5.9x) = -7.5x + 17.3$$

$$\begin{array}{r} 18.4 \\ -18.4 \\ \hline 2.9x = -7.5x + 17.3 \\ +7.5x \\ \hline 2.9x = -7.5x + 17.3 \\ +7.5x \\ \hline 2.9x = 17.3 \\ \div 2.9 \\ \hline x = 5.96551724138 \\ \approx 5.97 \end{array}$$

3

**Unit 18 Review of Linear Equations – Form C**

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

$$\begin{array}{r} 6 + 8y = 1 \\ -6 \quad -6 \\ \hline 8y = -5 \\ \div 8 \quad \div 8 \\ \hline y = -\frac{5}{8} \end{array}$$

2) Solve for x:

$$\frac{x}{-3} + 4 = -7$$

CWCTZ  
pre-  
evkovich prod. 2



3) Solve for x:

$$3x + 2x = 12$$

$$\frac{5x}{5} = \frac{12}{5}$$

$$x = 2.4$$

4) Solve for y:

$$6y + (-3) = 2 + 2y$$

Show your work here	For each step, explain why

5) Solve for y:

$$8 + (-5y) = -1 + 4y$$

6) Solve for x:

$$-4.8x + 3.2 = 8.9 + 2.5x$$

Show your work here	For each step, explain why



7) Solve for  $x$ :

$$-7.4 + 17.3x = 8.1x + (-24.6)$$

8) Solve for  $y$ :

$$y + 9.9 = -6.3y + (-4.2)$$

Show your work here	For each step, explain why

9) Solve for  $x$ :

$$\frac{7x+5}{2} = -3x$$

10) Solve for  $x$ :

$$16.3x + 18.4 + (-5.9x) = -7.5x + 17.3$$

## Unit 18 Review of Linear Equations – Form C

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

$$6 + 8y = 1$$

$$8y = 1 - 6$$

$$y = \frac{1 - 6}{8}$$

2) Solve for x:

$$\frac{x}{-3} + 4 = -7$$

$$\frac{x}{-3} = -7 - 4$$

$$\frac{x}{-3} = -11$$

$$x = -11 \times 3$$

CWCTZ  
pre-  
Eukovich prod. 2



3) Solve for x:

$$3x + 2x = 12$$

1

$$12 : 5 = 2.4$$

4) Solve for y:

$$6y + (-3) = 2 + 2y$$

Show your work here	For each step, explain why
$6y + (-3) = 2 + 2y$ $6y - 3 = 2 + 2y$ $6y - 2y = 2 + 3$ $4y = 5$ $y = \frac{5}{4}$	

5) Solve for y:

$$8 + (-5y) = -1 + 4y$$

$$8 + (-5y) + 5y = -1 + 4y + 5y$$

$$8 + -1 = 9y$$

$$y = 1$$

6) Solve for x:

$$-4.8x + 3.2 = 8.9 + 2.5x$$

Show your work here	For each step, explain why
$-4.8x + 3.2 = 8.9 + 2.5x$ $-4.8x + 3.2 - 2.5x = 8.9 + 2.5x - 2.5x$ $-7.3x + 3.2 = 8.9$ $-7.3x + 3.2 - 3.2 = 8.9 - 3.2$ $-7.3x = 5.7$ $x = -0.7808$	

7) Solve for  $x$ :

$$-7.4 + 17.3x = 8.1x + (-24.6)$$

- 2.44 2.38 2.18 1.46

$-7.0 = 9.2x$       19  
-70 = 92x      14

$$\frac{42.5}{100} = \frac{31.5}{90}$$

X: 34783

8) Solve for  $y$ :

$$y + 9.9 = -6.3y + (-4.2)$$

Show your work here	For each step, explain why
$y = 1.4x - 5.5y + 14.0$ $9.9 = -5.5y + 14.0$ $-4.1 = -5.5y$ $\frac{-4.1}{-5.5} = \frac{-5.5y}{-5.5}$ $0.75 = y$	

9) Solve for x:

$$\frac{7x+5}{2} = -3x$$

$$7x + 5 = -6x$$

$$13x = -5$$

10) Solve for x:

$$16.3x + 18.4 + (-5.9x) = -7.5x + 17.3$$

$$\frac{16.3x}{16.3} = \frac{17.3 - 18.4}{16.3}$$

$$16.3x - 5.9x = -7.5x + 17.3$$

$$10.4x - 1.65x = 7$$

$$8.75x = 7$$

$$x = \frac{7}{8.75}$$