

Unit 18 Review of Linear Equations – Form C

Det.

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.

Conlw. Prd. 8

1) Solve for y

$$6 + 8y = 1$$

↓

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

2) Solve for x:

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

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



3) Solve for  $x$ :

$$3x + 2x = 12$$

$$x = 2.4$$

4) Solve for  $y$ :

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

Show your work here	For each step, explain why
$y = 1.5$	

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:

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

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

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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Contro. Prod-B

1) Solve for y

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

$$y = -0.625$$

2) Solve for x:

$$\begin{array}{r} \frac{x}{-3} + 4 = -7 \\ \frac{x}{-3} - 12 = -11 \\ \hline x = 33 \end{array}$$

$$x = 33$$





3) Solve for x:

$$3x + 2x = 12$$

$$\frac{5x}{5} = \frac{12}{5} \quad x = 2.4$$

4) Solve for y:

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

Show your work here	For each step, explain why
$\begin{array}{r} 6y + 3 = 2 \\ \underline{-2y} \quad \underline{-3} \\ 4y = -1 \\ \underline{\div 4} \\ y = -0.25 \end{array}$	<p>I added both sides then  Subtracted 3 from both sides  I then divided both sides by 4  <math>y = -0.25</math></p>

5) Solve for y:

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

$$\begin{array}{r} 8 + (-5y) = -1 + 4y \\ -8 \quad -14y = -9 \\ \hline -14y = -9 \\ \hline y = 9 \end{array}$$

$$y = 9$$

6) Solve for x:

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

Show your work here	For each step, explain why
$\begin{array}{r} -4.8x + 3.2 = 8.9 \\ -4.8x = 8.9 - 3.2 \\ -4.8x = 5.7 \\ \hline x = -1.1875 \end{array}$ $x = -1.1875$	<p>add subtract subtract divide</p>

7) Solve for x:

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

$$\begin{array}{r} -7.4 + 17.3x = -24.6 \\ -7.4 + 17.3x - 17.3x = -24.6 - 17.3x \\ -7.4 = -24.6 - 17.3x \\ -7.4 + 7.4 = -24.6 + 7.4 - 17.3x \\ 0 = -17.2 - 17.3x \\ 17.2 = -17.3x \\ \frac{17.2}{-17.3} = \frac{-17.3x}{-17.3} \\ -0.99422 = x \end{array}$$

$$x = -1.26$$

8) Solve for y:

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

Show your work here	For each step, explain why
$\begin{array}{r} 9.9 + 6.3y = -4.2 \\ 9.9 + 6.3y - 6.3y = -4.2 - 6.3y \\ 9.9 = -4.2 - 6.3y \\ 9.9 + 4.2 = -4.2 - 6.3y + 4.2 \\ 14.1 = -6.3y \\ \frac{14.1}{-6.3} = \frac{-6.3y}{-6.3} \\ -2.23968 = y \end{array}$ $y = 1.0754$	<p>added subtracted subtracted divided</p>

9) Solve for x:

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

10) Solve for x:

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

$$\begin{array}{r} 16.3x + 18.4 + 17.3 \\ - 5.9x - 17.3 \\ \hline 10.4x + 1.1 \\ - 10.4x - 1.1 \\ \hline 0 \end{array}$$

$$x = 0.38$$

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Contn. pnd. 8

1) Solve for y

$$6 + 8y = 1$$

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

$$y = -0.625$$

2) Solve for x:

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



3) Solve for  $x$ :

$$3x + 2x = 12$$

$$5x = 12$$

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  $x$ :

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

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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.

Contno. prd. 8

1) Solve for y

$$6 + 8y = 1$$

$$14y$$

2) Solve for x:

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

$$-7x$$



3) Solve for x:

$$3x + 2x = 12$$

$$2.4x$$

4) Solve for y:

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

Show your work here	For each step, explain why
$6y + (-3) = 2 + 2y$ $3y = 4x$ $1.75y$	I added and the divided

5) Solve for y:

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

1y

6) Solve for x:

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

Show your work here	For each step, explain why
$-1.6x \quad 11.4x$ $-7.125x$	

7) Solve for x:

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

$$9.9x \quad -16.5$$

$$-1.66x$$

8) Solve for y:

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

Show your work here	For each step, explain why
$-2.35y$ $-4.2$	

9) Solve for x:

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

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

$$6 = -3x$$

$$-2x$$

10) Solve for x:

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

$$\underline{34.2}$$

$$9.8x$$

$$28.8x$$

$$2.93x$$



Unit 18 Review of Linear Equations – Form C

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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.

continue p. 8

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:

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



3) Solve for x:

$$3x + 2x = 12$$

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

$$x = 2.4$$

4) Solve for y:

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

Show your work here	For each step, explain why
$\begin{array}{r} 6y + (-3) = 2 + 2y \\ -2y \quad -2y \\ \hline 4y + (-3) = 2 + 3 \\ \quad +3 \quad +3 \\ 4y = 5 \\ \hline 4 \quad 4 \\ y = 1.25 \end{array}$	<p>Step 1: Subtracting <math>-2y</math> from both sides to isolate the variable terms.</p> <p>Step 2: Adding <math>+3</math> to both sides to isolate the variable term.</p> <p>Step 3: Dividing both sides by 4 to solve for <math>y</math>.</p>

5) Solve for y:

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

$$8 = -1 + 9y$$

$$1 = y$$

6) Solve for x:

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

Show your work here	For each step, explain why
$-4.8x + 3.2 = 8.9 + 2.5x$ $3.2 = 8.9 + 7.3x$ $-5.7 = 7.3x$ $x = -0.78$	<p>Step 1: Subtract <math>2.5x</math> from both sides to get all x terms on one side.</p> <p>Step 2: Subtract <math>8.9</math> from both sides to isolate the term with x.</p> <p>Step 3: Divide both sides by <math>7.3</math> to solve for x.</p>

7) Solve for x:

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

$$-8.1x - 8.1x$$

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

$$9.2x = -17.2$$

$$x = -1.869$$

8) Solve for y:

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

Show your work here	For each step, explain why
$y + 9.9 = -6.3y + (-4.2)$ $+6.3y$ $7.3y + 9.9 = -4.2$ $-9.9$ $7.3y = -14.1$ $7.3$ $y = -1.931$	<p>step</p> <p>① adding to be added</p> <p>② subtract 9.9 from both sides</p> <p>③ divide both sides by 7.3</p>

9) Solve for x:

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

$$10x + 5 = -6x$$

$$\frac{10x}{16} = -\frac{5}{6}$$

10) Solve for x:

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

$$10.4x + 18.4 - 13.4 = -7.5x + 17.3$$

$$29.7x + 18.4 - 18.4 = -7.5x + 17.3$$

$$29.7x = -11.1$$

$$x = -0.374$$

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Cont'd. pvc-8

1) Solve for y

$$6 + 8y = 1$$

?

2) Solve for x:

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

x = -33

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3) Solve for x:

$$3x + 2x = 12$$
$$(3 \times 2) + (2 \times 3) = 12$$
$$6 + 6 = 12$$

4) Solve for y:

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

Show your work here	For each step, explain why
Not Sore!	

5) Solve for y:

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

$$y = -1$$

$$-1.6 + 10 = 8.4$$

6) Solve for x:

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

$$-1.6x = 5.7$$

Show your work here	For each step, explain why
10.2?	

7) Solve for x:

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

$$X = .8$$

8) Solve for y:

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

Show your work here	For each step, explain why
$y = -1.7$	

9) Solve for x:

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

$$\begin{aligned} -0.5 \times 7 + 5 \div 2 &= -1 \\ 0.6 &= -1.7 \\ 0.7 &= -2.9 \\ 0.9 &= -3.8 \\ -0.8 &= -3.1 \end{aligned}$$

$$x = -0.8$$

10) Solve for x:

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

I don't order the work.

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Rot.

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Contw. pnd-8

1) Solve for y

$$6 + 8y = 1$$

$$\begin{array}{r} 8y = -5 \\ \frac{8y}{8} = \frac{-5}{8} \\ y = -0.625 \end{array}$$

2) Solve for x:

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

$$\begin{array}{r} -3 \cdot \frac{x}{-3} \quad -11 \cdot 3 \\ x = 33 \end{array}$$



3) Solve for x:

$$3x + 2x = 12$$

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

$$x = 2.4$$

4) Solve for y:

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

Show your work here	For each step, explain why
$6y + (-3) = 2 + 2y$ $6y + (-3) = 4y$ $10y + (-3)$ $-3 = -10$ $-0.3$	$6y + (-3)$ $add$ $Divide$

5) Solve for y:

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

$$\frac{7}{-9} = (-15)$$

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 \\  -2.3x + 10.1 \\  \hline  -2.3 \quad 2.3 \\  x = -3.3654 \dots  \end{array}  $	$  \begin{array}{l}  \text{Add:} \\  \text{Divide:}  \end{array}  $



7) Solve for x:

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

$$\begin{array}{r} 25.4x - 32 \\ \hline 25.4x - 32 \end{array}$$

$$x = -1.25984652$$

8) Solve for y:

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

Show your work here	For each step, explain why
$\begin{array}{r} y + 9.9 = -6.3y + (-4.2) \\ 5.7 - 6.3y \\ \hline 6.3 \quad 6.3 \end{array}$ $y = -6.34761904$	<p>Add</p> <p>divide</p>

9) Solve for x:

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

$$\begin{array}{r} 7x + 5 \\ \hline 2 \end{array} = -3x$$

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

$$13x = -5$$

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

10) Solve for x:

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

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

$$\begin{array}{r} 10.4x + 18.4 \\ -7.5x + 17.3 \\ \hline 2.9x + 1.1 \end{array}$$

$$2.9x + 1.1 = 0$$

$$2.9x = -1.1$$

$$x = -\frac{1.1}{2.9}$$

$$x = -0.3793103448$$

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*Ret.*

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*Contw. pnd. 8*

1) Solve for y

$$6 + 8y = 1$$

$$6 + 8 = 14 \div 8 = 1$$

2) Solve for x:

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

$$-3 - 4 = -7$$



3) Solve for x:

$$3x + 2x = 12$$

$$3 + 2x^2$$

$$= 5x^2$$

$$5 + 5 = 10 + 2$$

4) Solve for y:

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

Show your work here	For each step, explain why
$6y + (-3) = 2 + 2y$ $6 - 2 = 4$ $4 + (-3) = 2$ $4 + 2 = 6(-3)$ $(9)$	Subtract variables add remaining add left numbers and subtract

5) Solve for y:

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

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

$$-9 + 9 = 0$$

6) Solve for x:

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

Show your work here	For each step, explain why
$-4.8 \div 2.5 =$ $3.2 - 8.9 = -5.7$ $3.2 \times 1.6$ $5.12$	<p>Subtract</p> <p><math>8.9</math> and <math>3.2</math></p> <p>minus <math>3.2</math> minus</p> <p><math>8.9</math> equals</p> <p><math>-5.7</math> times</p> <p><math>3.2 \times 1.6</math></p>

7) Solve for x:

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

$$\begin{array}{r} 17.3 - 8.1 \\ -24.6 = (-21.6) 9.2 \\ \hline -7.4 - 9.2 \\ 68.08 \end{array}$$

8) Solve for y:

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

Show your work here	For each step, explain why
$\begin{array}{r} 9.9 - (-4.2) \\ 9.9 = -6.3y \\ \hline 3.6 \end{array}$	<p>subtract 9.9 and (-4.2) and subtract 9.9 and 6.3 = 3.6</p>

9) Solve for x:

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

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

10) Solve for x:

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

$$\begin{aligned} 34.7 + 1.6 &= 17.3 \\ 36.3 &= 17.3 \\ 33.6 \end{aligned}$$



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Cont. pvd. 8

1) Solve for y

$$6 + 8y = 1$$

$$6 - 6 + 8y = 1 - 6$$

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

$$y = -0.625$$

2) Solve for x:

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

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

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

$$x = 33$$



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
$4y - 3 = 2$ $4y - 3 + 3 = 2 + 3$ $\frac{4y}{4} = \frac{5}{4}$ $y = 1.25$	

5) Solve for y:

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

$$8 - 5y = -1$$

$$8 - 8 - 5y = -1 - 8$$

$$\frac{-5y}{-5} = \frac{-9}{-5}$$

$$y = 1.8$$

6) Solve for x:

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

Show your work here	For each step, explain why
$\begin{aligned} -4.8x + 3.2 &= 8.9 \\ -3.2 &-3.2 \\ \hline -4.8x &= 5.7 \\ \frac{-4.8x}{-4.8} &= \frac{5.7}{-4.8} \\ x &= -0.7808 \end{aligned}$	

7) Solve for x:

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

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

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

$$x = -1.8695$$

8) Solve for y:

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

Show your work here	For each step, explain why
$y + 9.9 = -6.3y - 4.2$ $y + 9.9$ $\frac{y + 9.9}{-5.3} = \frac{-5.3y - 4.2}{-5.3}$ $-2.6603 = y$	

9) Solve for  $x$ :

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

10) Solve for  $x$ :

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