

Unit 18 Review of Linear Equations – Form B



Q5DKsvE

Login: _____

School: Witkinsburg

Teacher: Mr. D

Period: Seven

Date: May 2, 2007

Test (circle):

Pre-Test

Post-Test

Retention Test

Unit 18 Review of Linear Equations – Form B

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

1) Solve for y

$$\frac{9}{-9} + 2y = 4 \quad y = -2.5$$

$$\frac{2y}{1/2} = \frac{-5}{1/2} = -2.5$$

~~Instructions for you~~

2) Solve for x:

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

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

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

$$= 0.444$$

$$x = 0.444$$

3) Solve for x:

$$2x + 5x = 6$$

$$7x = 6$$

$$x = 0.8571$$

$$x = 0.8571$$

4) Solve for y:

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

Show your work here	For each step, explain why
$4y - 7 = 5 + 6y$ $\begin{array}{r} 4y - 7 = 5 + 6y \\ -5 \quad -5 \\ \hline 4y - 12 = 6y \\ -4y \quad -4y \\ \hline -12 = 2y \\ \div 2 \quad \div 2 \\ -6 = y \\ x = -6 \end{array}$	<p>Simplify sign</p> <p>Subtracted both sides by 5</p> <p>Subtract both side by 4</p> <p>Divide by 2</p>

5) Solve for y:

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

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

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

$$\begin{array}{r} 10 = 10y \\ /10 \quad /10 = 1 \end{array}$$

$$y = 1$$

6) Solve for x:

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

Show your work here	For each step, explain why
$\begin{array}{r} -1.8x + 6.3 = 9.7 + 5.1x \\ -9.7 \quad -9.7 \\ \hline -1.8x - 3.4 = 5.1x \\ +1.8x \quad +1.8x \\ \hline -3.4 = 6.9x \\ -6.9 \quad -6.9 \\ \hline -3.4 = -0.492x \end{array}$	<p>Subtract both sides (9.7)</p> <p>Add both sides</p> <p>Divide both sides</p>

7) Solve for x:

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

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

$$\begin{array}{r} -4.9 + 6.3x = 21.1x \\ -6.3x \quad -6.3x \end{array}$$

$$\begin{array}{r} -4.9 = 14.8x \\ 14.8 \quad 14.8 \end{array}$$

$$x = -0.533\bar{3}$$

8) Solve for y:

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

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

9) Solve for x :

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

10) Solve for x :

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

Unit 18 Review of Linear Equations – Form B

Login:  **Carnegie Learning**
THE COGNITIVE TUTOR COMPANY **POOVv3Y** _____

School: Wilkinsburg

Teacher: Mr O

Period: 7th Period

Date: 5/2/07

Test (circle):

Pre-Test

Post-Test

Retention Test

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

$$\begin{array}{r} 9 + 2y = 4 \\ -9 \quad -9 \\ \hline 2y = -13 \\ 2 \quad 2 \\ \hline y = -13/2 \end{array}$$

2) Solve for x:

$$\begin{array}{r} -4 \cdot \frac{x}{4} + 6 = -3 \cdot -4 \\ \frac{6x}{6} = \frac{12}{6} \\ x = 2 \end{array}$$

3) Solve for x:

$$\begin{array}{r}
 2x + 5x = 6 \\
 \underline{-5x \quad -5x} \\
 2x = 1 \\
 \frac{2x}{2} = \frac{1}{2} \\
 x = 0.5
 \end{array}$$

4) Solve for y:

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

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

5) Solve for y:

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

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

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:

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

$.42 + 1.14 =$

10) Solve for x:

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

Unit 18 Review of Linear Equations – Form B

Login:



DWi4Ume

School:

WILKINSBURG HIGH SCHOOL

Teacher:

Mr. O

Period:

7th

Date:

5/2/07

Test (circle):

Pre-Test

Post-Test

Retention Test

Unit 18 Review of Linear Equations – Form B

You have 15 minutes to answer as many questions as you can. Do not 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

$$\cancel{-9} + 2y = 4$$

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

$$y = -2.5$$

2) Solve for x:

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

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

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

$$x = 0.444\bar{4}$$

3) Solve for x:

$$2x + 5x = 6$$

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

$$x = 0.8571$$

4) Solve for y:

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

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

5) Solve for y:

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

$$y = 1$$

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 \\ -6.3 & \quad -6.3 \\ -1.8x &= 3.4 + 5.1x \\ -5.1x & \quad -5.1x \\ -6.9x &= 3.4 \\ \hline -6.9 & \quad -6.9 \\ x &= -0.4928 \end{aligned} $	<p>subtract +6.3</p> <p>subtract +5.1x</p> <p>divide by -6.9x</p>

7) Solve for x:

$$\begin{array}{r} -13.8 + 6.3x = 21.1x + (-5.9) \\ +13.8 \quad \quad \quad +13.8 \end{array}$$

$$\begin{array}{r} 6.3x = 21.1x + 7.9 \\ -21.1x \quad -21.1x \end{array}$$

$$-14.8x = 7.9$$

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

$$-0.5338$$

8) Solve for y:

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

Show your work here	For each step, explain why
$\begin{array}{r} y + 8.2 = -3.4y + (-11.6) \\ +8.2 \quad \quad \quad +8.2 \end{array}$ $\begin{array}{r} y = -3.4y - 19.8 \\ +3.4y \quad +3.4y \end{array}$ $\begin{array}{r} 4.4y = -19.8 \\ \hline 4.4 \quad \quad 4.4 \end{array}$ $y = -4.4$	<p>Subtract 8.2</p> <p>Subtract -3.4y</p> <p>divide by 4.4</p>

9) Solve for x :

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

10) Solve for x :

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

Unit 18 Review of Linear Equations – Form B

Login:



A6478k2



School:

Willhite High

Teacher:

Mr. C

Period:

2nd

Date:

5/2/07

Test (circle):

Pre-Test

Post-Test

Retention Test

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

$$\begin{array}{r} 0 + 2y = 4 \\ -4 \quad -4 \quad \text{subtract} \\ \hline \end{array}$$

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

$$y = -2.5 \text{ Answer}$$

2) Solve for x: Don't remove
 $\frac{x}{-4} + 6 = -3$ now to do

3) Solve for x:

$$2x + 5x = 6$$

$$-5x - 5$$

$$2x = 1$$

$$x = 0.5$$

4) Solve for y:

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

Show your work here	For each step, explain why
$4y + (-7) = 5 + 6y$ $4y - 7 = 5 + 6y$ $4y - 6y = 5 + 7$	<p>← Distribute because negative seven is in ().</p> <p>← Add/subtract terms</p>

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 :

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

Unit 18 Review of Linear Equations – Form B



SY4ru74

Login: _____

School: _____

Teacher: _____

Period: _____

Date: _____

Test (circle):

Pre-Test

Post-Test

Retention Test

Unit 18 Review of Linear Equations – Form B

You have 15 minutes to answer as many questions as you can. Do not 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:

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

$$\begin{aligned} \frac{x}{-4} + 6 &= -3 \\ \frac{x}{-4} &= -3 - 6 \\ \frac{x}{-4} &= -9 \\ x &= 36 \end{aligned}$$

3) Solve for x :

$$2x + 5x = 6$$

4) Solve for y :

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

Show your work here	For each step, explain why
$ \begin{array}{r} 4y - 7 = 5 + 6y \\ -7 \\ \hline 4y = 12 + 6y \\ -6y \\ \hline -2y = 12 \\ \div -2 \\ y = -6 \end{array} $	<p> $4y - 7 = 5 + 6y$ -7 subtract 7 from both sides $4y = 12 + 6y$ $-6y$ subtract $6y$ from both sides $-2y = 12$ $\div -2$ divide both sides by -2 $y = -6$ </p>

5) Solve for y:

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

$$\begin{array}{r} 7 - 8y = -3 + 2y \\ -8y - 2y = -3 - 7 \\ -10y = -10 \\ \frac{-10y}{-10} = \frac{-10}{-10} \\ y = 1 \end{array}$$

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 :

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

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

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 :

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

Unit 18 Review of Linear Equations – Form B

Login:  Carnegie Learning
THE COGNITIVE TUTOR COMPANY

W0oven9

School: Willisburg

Teacher: Mr. O

Period: 7

Date: 5/2/07

Test (circle):

Pre-Test

Post-Test

Retention Test

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

$$9 + 2y = 4$$

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

$$y = -2.5$$

2) Solve for x:

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

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

$$\begin{array}{r} x \\ \frac{x}{-4} = -9 \\ \times 4 \quad \times 4 \end{array}$$

$$x = -36$$

3) Solve for x :

$$2x + 5x = 6$$

4) Solve for y :

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

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

5) Solve for y:

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

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

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

$$y = 1$$

6) Solve for x:

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

Show your work here	For each step, explain why

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 :

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

Unit 18 Review of Linear Equations – Form B

Login:



gcsghA6

School:

Teacher:

Period:

Date:

Test (circle):

Pre-Test

Post-Test

Retention Test

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:

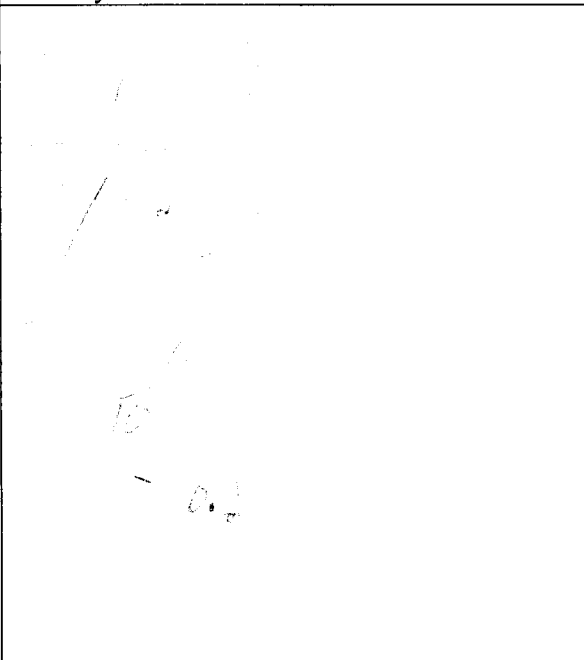
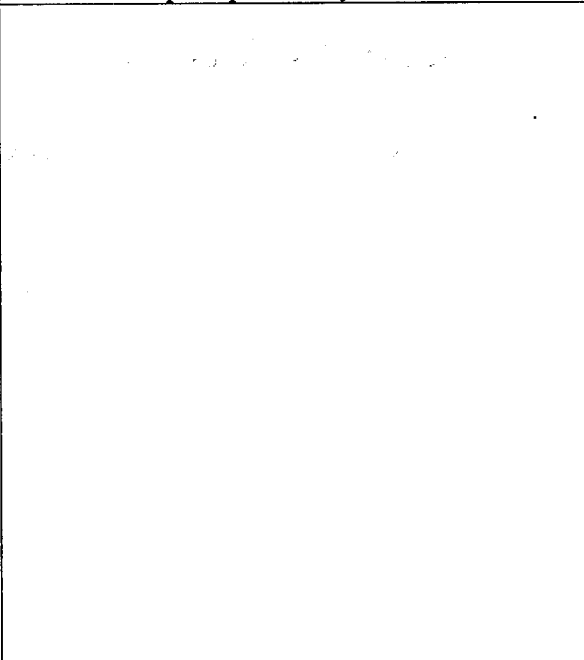
$$\frac{x}{-4} + 6 = -3$$

3) Solve for x :

$$2x + 5x = 6$$

4) Solve for y :

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

Show your work here	For each step, explain why
 Handwritten work for problem 4. The student has written the equation $4y + (-7) = 5 + 6y$ and then $4y - 7 = 5 + 6y$. Below this, they have written $4y - 6y = 5 + 7$, which simplifies to $-2y = 12$. Finally, they have written $y = -6$.	 This column is blank, intended for the student to provide an explanation for each step of their work.

5) Solve for y:

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

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

6) Solve for x:

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

Show your work here	For each step, explain why
$\begin{aligned} -1.8x + 6.3 &= 9.7 + 5.1x \\ -1.8x - 5.1x &= 9.7 - 6.3 \\ -6.9x &= 3.4 \\ x &= -0.49 \end{aligned}$	

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 :

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

Unit 18 Review of Linear Equations – Form B

Login:



33w0X2b

School:

Wilkinsburg high school

Teacher:

Mr. Adams

Period:

7

Date:

5-2-23

Test (circle):

Pre-Test

Post-Test

Retention Test

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

$$\begin{array}{r} 9 + 2y = 4 \\ -9 \quad -9 \\ \hline 2y = -5 \\ \frac{2y}{2} = \frac{-5}{2} \end{array} \quad y = -0.4$$

2) Solve for x:

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

3) Solve for x:

$$2x + 5x = 6$$

$$\frac{7x}{7} = \frac{6}{7} \quad x = 1.\overline{6}$$

4) Solve for y:

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

Show your work here	For each step, explain why
$ \begin{array}{r} -28 = 5 + 6y \\ -5 \quad -5 \\ \hline -33 = 6y \\ \frac{-33}{6} = \frac{6y}{6} \\ y = -5.5 \end{array} $	<p>Combine like terms subtract by 5 Then divide -33 by 6</p>

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 :

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

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

10) Solve for x :

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

Unit 18 Review of Linear Equations – Form B

Login:  **Carnegie Learning**
THE COGNITIVE TUTOR COMPANY

V3JboV1 _____

School: Wilkinsburg High

Teacher: Mr. Oteino

Period: Seven (7)

Date: 5-2-07

Test (circle):

Pre-Test

Post-Test

Retention Test

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. If you need to ask for help, please explain your answer in plain English.

1) Solve for y

$$\begin{array}{r} -9 + 2y = 4 \\ -9 \quad -9 \\ \hline 2y = -5 \\ \frac{2y}{2} = \frac{-5}{2} \\ y = 2.5 \end{array}$$

2) Solve for x:

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

3) Solve for x:

$$\begin{array}{r} 2x + 5x = 6 \\ -2 \quad -2 \\ \hline x + 3x = 8 \end{array}$$

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:

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

$$\begin{array}{r} -13.8 \\ -13.8 \end{array}$$

$$\begin{array}{r} 6.3x = 21.1x + 7.9 \\ -7.9 \end{array}$$

$$\begin{array}{r} 55.1 = 21x \\ 21 \end{array}$$

$$2.6238 = x$$

8) Solve for y:

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

Show your work here	For each step, explain why

9) Solve for x:

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

$$\begin{array}{r} 21x + 56 = -12x \\ -56 \quad -56 \\ \hline 21x = -68 \\ \hline 21 \quad 21 \\ \hline x = -3.2380 \end{array}$$

10) Solve for x:

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

Unit 18 Review of Linear Equations – Form B



vg01i2P

Login:

School:

Teacher:

Period:

Date:

Test (circle):

Pre-Test

Post-Test

Retention Test

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

$$9 + 2y = 4$$

$$9 - 9 = 4 - 9$$

$$2y = -5$$

$$y = -2.5$$

2) Solve for x:

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

$$-4 \cdot -4 = -4 \cdot 6$$

$$x = -4 \cdot -4 = 16$$

$$x = 16$$

3) Solve for x:

$$2x + 5x = 6$$

Combine like terms

$$7x = 6$$

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

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

4) Solve for y:

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

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

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 :

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