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

Post

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.

Covino. Prd. 8

1) Solve for y

$$9 + 2y = 4$$
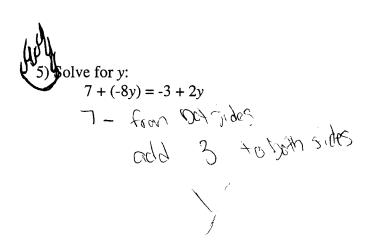
$y = -6$

2) Solve for x:

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

$x = 13$

3) Solve for x:

$$2x + 5x = 6$$

$x = -2$

4) Solve for y:

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

Show your work here	For each step, explain why
$4y + (-7) - 5 + 6y$	I dont know

5) Solve for *y*:

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

7 – from both sides

add 3 to both sides

y

6) Solve for *x*:

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

Show your work here	For each step, explain why
-1.8+6.3 -9.7 +5.x 6. x 2	

7) Solve for x:

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

-13.8 +5 21.1 (-5.9)

.13.8

$X = 64$

8) Solve for y:

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

Show your work here	For each step, explain why
$y + 8.2 = -3.4y + 11.6$ $y = 12$	

9) Solve for x:
$$\frac{3x+8}{7} = -12x$$

$x = 6$

10) Solve for x:
$$12.6x + 21.1 + (-7.4x) = -9.2x + 15.8$$

$12.6(21.1 + (-7.1)x) = -9.7x + 15.8$

$x = 17$

Unit 18 Review of Linear Equations – Form B

POST

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Lonho. Prd. 8

1) Solve for y

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

$$9 - \frac{2y}{2} = \frac{-9}{5}$$

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

$$y = -2.5$$

2) Solve for x:

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

$$\times 4 - 6 = -6$$

$$-6 = -4 \quad x = 36$$

3) Solve for x:

$$2x + 5x = 6$$

$$\frac{7x}{7} = \frac{6}{7} \qquad x = 0.8571467$$

4) Solve for y:

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

Show your work here	For each step, explain why
$4y+(-7)=5+6y$ $\quad -7=5+2y$ $\quad$ $-4y \qquad -5=$ $\quad 2y \qquad \frac{-2}{2} \quad y=-1$	subtracted both y's; then rewrote the equation then I subtracted both sides by 5 and got -2 then I was left with -2 = 2y then I divided both sides by 2 and got -1

5) Solve for y:

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

(handwritten work, partially crossed out)

$7 = -3 + 10y$

$-3 = -3 + 10y$

$\dfrac{10}{10}$ $\boxed{y = 1}$

6) Solve for x:

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

Show your work here	For each step, explain why
$-1.8x + 6.3 = 9.7 + 5.1x$ $-1.8x \qquad\qquad -1.8x$ $\overline{}\quad 3.3x$ $6.3 = 9.7 + 3.3y$ $-9.7 \; -9.7$ $\overline{-3.4}$ $\dfrac{-3.4 = 3.3y}{3.3 \qquad 3.3}$ $-1.0\overline{3} = y$	I rewrote the equation then I subtracted bothsides by -1.8x then was left with 6.3... then subtracted bothsides by 9.7 and was left wit -3.4 = 3.3y then I divided bothsides by 3.3 and got -1.0$\overline{3}$y

Unit 18 Form B

7) Solve for x:

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

$$\frac{-6.3x \quad -6.3x}{14.8x}$$

$$\frac{-13.8 = 14.8x + (-5.9)}{-9.9 \qquad -(5.9)}$$

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

$-0.53 = x$

8) Solve for y:

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

Show your work here	For each step, explain why
$y + 8.2 = -3.4y + (-11.6)$ $\quad -y \qquad -y$ $\frac{8.2 = -4.4y + (-11.6)}{-11.6 \qquad -(11.6)}$ 19.8 $\frac{19.8 = -4.4y}{-4.4 \quad -4.4}$ $-4.5 = y$	I subtracted y from both sides and got $-4.4y$ since a single place $y = 1$ then I subtracted -11.6 from both sides then divided both sides by -4.4 and got $-4.5 = y$.

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**   *Post*

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.

Lemho. Prd. 8

1) Solve for y

$$9 + 2y = 4$$

$$y = -2.5$$

2) Solve for x:

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

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

$$x = 36$$

154
18
189

3) Solve for x:

$$2x + 5x = 6$$

2

$$X + 5x = 3$$

$$\frac{5}{5}$$

$$X + X = 0.6$$

$$\boxed{X = 0.3}$$

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:

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

Unit 18 Review of Linear Equations – Form B

Post

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.

Conko. Prd. 8

1) Solve for y

$$9 + 2y = 4$$

$$-9$$

$$0 + 2y = 4$$

$$2y = 4$$

$$1.5\ y$$

2) Solve for x:

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

$$2 + 0 = -3$$

$$2x = -1$$

$$0.66\ x$$

3) Solve for x:

$$2x + 5x = 6$$

$2x \quad 2x$

$0x + 3x = 6$

$\overline{3}x = 6$

$0.5x$

4) Solve for y:

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

Show your work here	For each step, explain why
$4y + (-7) = 5 + 6y$ $4y \qquad \quad 4y$ $0y + (-7) = 5 + 2y$ $0x + -7 = 5 + 2y$ $\qquad \qquad \dfrac{2 \quad 2}{}$ $-7y = 3 + 2y$ $\cancel{2y} \quad 0y$ $3y - 7$ $\left(\overline{-0.43y}\right)$	I substacted by $4y$.

5) Solve for y:

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

$$7 \quad 7$$

$$0 + -15 = -3 + \frac{2}{3}y$$

$$0 + -15y = -6 + 4y$$

$$-6 + 16y$$

$$-2.66y$$

6) Solve for x:

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

Show your work here	For each step, explain why
$-1.8x + 6.3 = 9.7 + 5.1x$	
$6.3 \qquad 6.3 \quad 9.7 \quad 9.7$	
$-4.6x + 0 = 0 + 4.6x$	
$\boxed{x - 9.2x}$	

7) Solve for x:

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

$-13.8 + 6.3x = 21.1x + (-5.9)$
$\,5.9 \qquad 5.9$

$0 + 20.1x = 27x + 0$

$\boxed{-6.4x}$

8) Solve for y:

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

Show your work here	For each step, explain why
$y + 8.2 = -3.4y + (-11.6)$ $y + 8.2 = 8.2y + 0$ $8.2 = 8.2y$ $\boxed{10y}$	

9) Solve for x:

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

$$\frac{5x}{7}=-12x$$

$$\left(-17x\right)$$

10) Solve for x:

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

$$\left(2.92x\right)$$

Unit 18 Review of Linear Equations – Form B

Test

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.

Conko. Avel. 8

1) Solve for y

$$9 + 2y = 4$$

$$y = -0.4$$

2) Solve for x:

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

3) Solve for x:

$$2x + 5x = 6$$

$$7x = 6$$

$$x = \frac{6}{7} \approx .11$$

4) Solve for y:

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

Show your work here	For each step, explain why
$4y + (-7) = 5 + 6y$ $\quad -4y$ $-7 = 5 + 2y$ $-5 \quad -5$ $\dfrac{-12}{2} = \dfrac{2y}{2}$ $(-6 = y)$	① subtract $4y$ from both sides ② subtract ③

5) Solve for y:

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

$$7 = -3 + 10y$$

$$y =$$

6) Solve for x:

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

Show your work here	For each step, explain why
$-1.8x + 6.3 = 9.7 + 5.1x$ $+1.8x$ $+1.8x$ $6.3 = 9.7 + 6.9x$ -9.7 $-3.4 = 6.9x$ $x = -0.49$	① Add $1.8x$ to ② subtract 9.7 ③ -0.49

7) Solve for x:

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

$$-6.3x \quad 6.3x$$

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

$$5.9 \qquad\qquad + 5.9$$

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

$$x = 0.533$$

8) Solve for y:

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

Show your work here	For each step, explain why
$y + 8.2 = -3.4y + (-11.6)$	① add 3.4y to both sides
$+3.4y \qquad +3.4y$	
$4.4y + 8.2 = -11.6$	②
$-8.2 \quad -8.2$	
$4.4y = -19.8$	
$y = -4.5$	

9) Solve for x:

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

$$\frac{8}{7} = -6x$$

$$1.14 = \frac{-15x}{-15}$$

$$6$$

$$x = 0.076$$

10) Solve for x:

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

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

$$29.2x - 21.1 = 15.8$$
$$\qquad 21.1 \quad 21.$$

$$29.9x = 5.3$$

$$x = 0.175$$

Unit 18 Form B

Unit 18 Review of Linear Equations – Form B

Post

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.

Conhc. Pao. 8

1) Solve for y

$$9 + 2y = 4$$
$$-9 \quad -9$$
$$-5$$

Conv. ecnnations 4

2) Solve for x:

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

$$X = 36 \quad \cdot \quad I \text{ don't know}$$

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:

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

(handwritten work)

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

$$-8y = -8$$

$$y = -1$$

6) Solve for x:

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

(handwritten: x = -42 ?)

Show your work here	For each step, explain why

7) Solve for *x*:

$-7 \le$

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

$x = 28.6$

8) Solve for *y*:

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

Show your work here	For each step, explain why
$y = -11.6$	

9) Solve for x:

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

$X = 4$

10) Solve for x:

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

?

I D₀ N₀t R̶e̶m̶e̶m̶b̶e̶r̶ ᵘᵃʸ ᵒf
Thᵢ₅ ᵂᵃⁱ.

Unit 18 Review of Linear Equations – Form B

Post

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Lonho. Hd-8

1) Solve for y

$$9 + 2y = 4$$

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

$$\boxed{y = -2.5}$$

2) Solve for x:

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

$$-9 \cdot -4$$

$$\boxed{x = 36}$$

3) Solve for x:

$$2x + 5x = 6$$

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

$$\boxed{x = -2}$$

4) Solve for y:

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

Show your work here	For each step, explain why
$4y + (-7) = 5 + 6y$ $ \underline{-6 \quad -6}$ $4y + (-7) = -1y$ $\underline{-1y}$ $\frac{5y + (-7)}{6} = \frac{}{6}$ $\boxed{y = -1.4}$	subtract 6 from both sides subtract -1 from both sides divide both sides by 6

5) Solve for y:

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

(handwritten work)
$-7 \qquad -7$

$-8y = -10 + 2y$

$\dfrac{2y}{-10} \quad 10$

$-10 \quad 10$

$y = 0$

6) Solve for x:

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

Show your work here	For each step, explain why
$-1.8x + 6.3 = 9.7 + 5.1x$ $-6.3 \quad 6.3$ $-1.8x + 3.4 + 5.1x$ -5.1 $\dfrac{-6.9x + 3.4}{6.9} \quad \dfrac{3.4}{-6.9}$ $x = -0.49275$	Subtract both sides b 6.3 subtract 5.1 from 1.8 divide both sides by -6.9

7) Solve for x:

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

$$\underline{-13.8} \qquad \qquad \underline{-13.8}$$

$$6.3x \quad 21.1x - 19.7$$

$$\underline{-21.1x}$$

$$\frac{-14.8x}{-14.8} = \frac{-19.7}{-14.8}$$

$$x = -1.331081081$$

8) Solve for y:

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

Show your work here	For each step, explain why
$y + 8.2 = -3.4y + (-11.6)$ $\underline{-8.2} \qquad \quad \underline{8.2}$ $\dfrac{-3.4y}{3.4} \quad \dfrac{-19.8}{-3.4}$ $y = 5.823529410$	subtract 8.2 from Both Sides divide 3.4 from Both Sides

9) Solve for x:

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

10) Solve for x:

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

$$\begin{array}{cc} -7.4 & -21.1 \\ \underline{9.2} & \underline{21.1} \end{array}$$

$$\frac{10.8y}{10.8} \qquad \frac{3.3}{10.8}$$

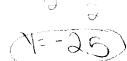$$y = -0.4gr(\text{...})$$

Unit 18 Review of Linear Equations – Form B

POST

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.

Contro. fld. 2

1) Solve for y

$$9 + 2y = 4$$

$$9 + 2 = 11$$

$$\frac{11y}{11} = \frac{4}{11}$$

$$y = 2.75$$

2) Solve for x:

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

$$\frac{-4 + 6 = 2}{x}$$

$$\frac{x}{2} = -3$$

$$\frac{x}{2} \cdot 2 = -3 \cdot 2$$

$$x = -6$$

3) Solve for x:

$2x + 5x = 6$

$2 + 5 = 7$

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

$\boxed{X = 1.167}$

4) Solve for y:

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

Show your work here	For each step, explain why
$4y + (-7) = 5 + 6y$ $-7 \quad -7$ $\dfrac{4y}{-0.71} = \dfrac{-0.71 + 6y}{-0.71}$ $\dfrac{-5.6y}{-5.6} = \dfrac{6y}{-5.6}$ $Y = -1.07$	deuded each side by-7 subt racted bothsides by -0.71 divided both side by -5.6, and got y = -1.07

5) Solve for *y*:

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

$$\frac{7}{7}$$

$$(-8y)$$

$$-3$$

$$(-8) =$$

$$-6$$

$$\boxed{-6 = y}$$

6) Solve for *x*:

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

Show your work here	For each step, explain why
$-1.8x + 6.3 = 9.7 + 5.1x$ $3.3x + 6.3 = \frac{9.7}{6.3}$ $ 6.3 6.3$ $\frac{3.3x}{3.3} = \frac{1.55}{3.3}$ $x = 0.40$	added -1.8 and 5.1 devided devided 0.46

7) Solve for x:

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

-13.8 + -5.9 = 19.7

6.3x = 21.1x + (19.7)

6.3 6.3

x = 21.1

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) -11.6 -11.6 2.8 = [illegible] 14.8 14.8 y = .17	subtracted -11.6 from noth sides, deuded By 14.8 and got 0.17

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

Post

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.

Conno. frd. 8

1) Solve for y

$$9 + 2y = 4$$
$$-9 \qquad -9$$

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

$$\boxed{y = -0.4}$$

2) Solve for x:

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

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

$$\boxed{x = 34}$$

3) Solve for *x*:

$$2x + 5x = 6$$

$-2x \quad -3$

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

$\boxed{X = .05}$

4) Solve for *y*:

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

Show your work here	For each step, explain why
$4y + -7 + 7 = 5 + 7 = 6y$	Added 7 to both sides
$4y = 12 + 6y$ $-6y \qquad -6$	Subtracted 6 from both sides
$\dfrac{-2y}{-12} = \dfrac{12}{+2}$	divided both sides by 2
$\boxed{Y = -6.16}$	

5) Solve for y:

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

$${+3}{+3}$$

$$10 + -8y = 2y$$
$${+8}{+8}$$

$$\frac{10}{10} = \frac{16y}{10}$$

$$\boxed{Y = 1}$$

6) Solve for x:

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

Show your work here	For each step, explain why
$-1.8x + 6.3 + -6.3 = 9.7 + -6.3 + 5.1x$ $-1.8x = 9.7 + 5.1x$ $-5.1 -5.1$ $-6.9x = \dfrac{9.7}{}$ $\dfrac{}{9.7} \quad \dfrac{}{9.7}$ $\boxed{X = 0.711340206}$	subtract 6.3 from both sides subtract 5.1 from both sides divided both sides by 9.7

7) Solve for x:

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

$+5.9$ $+5.9$

$$-7.9 + 6.3x = 21.1x$$
$$-6.3 \qquad\qquad -6.3$$

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

$$\boxed{x = -0.5337837837}$$

8) Solve for y:

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

Show your work here	For each step, explain why
$y + 8.2 - 8.2 = -3.4y + 11.4 - 8.2$ $1y = -3.4y + -19.8$ $+3.4 \qquad +3.4$ $\dfrac{4.4y}{19.8} = \dfrac{-19.8}{19.8}$ $\boxed{y = -0.22}$	subtract 8.2 from both sides ~~subtract~~ add 3.4 to both sides divide both sides by 14.8

9) Solve for x:

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

$$\frac{8}{7} = -15x$$

$$\frac{54}{54} = \frac{-105x}{54}$$

$$\boxed{x = -1.875}$$

10) Solve for x:

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

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

$$5.2x + 5.3 = -9.2x$$
$-5.2 \qquad\qquad -5.2$

$$\frac{5.3}{5.3} = \frac{4x}{5.3}$$

$$\boxed{x = 0.7547714981}$$

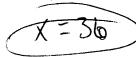## Unit 18 Review of Linear Equations – Form B

POST

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.

Gr nbo. Prd. B

1) Solve for y

$$9 + 2y = 4$$

$$9 - 9 + 2y = 4 - 9$$

$$2y = -5$$

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

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

$$\boxed{y = -2.5}$$

2) Solve for x:

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

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

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

$$\boxed{x = 36}$$

3) Solve for x:

$$2x + 5x = 6$$

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

$$\boxed{x = 0.8571}$$

4) Solve for y:

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

Show your work here	For each step, explain why
$\dfrac{4y + (-7)}{4} = \dfrac{5 + 6y}{4}$ $-1.25 = 1.25 + 1.5y$ $-1.25 - 1.25 = 1.25 - 1.25 + 1.5y$ $\dfrac{-2.5}{1.5} = \dfrac{1.5y}{1.5}$ $-1.\overline{66} = y$	To get the y on one side To get $1.5y$ by itself To get y by itself

5) Solve for y:

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

$$\frac{7 + (-8y)}{2} = \frac{-3 + 2y}{2}$$

$$3.5 + (-4y) = -1.5$$

$$3.5 - 3.5 + (-4y) = -1.5 - 3.5$$

$$\frac{-4y}{-4} = \frac{-5}{-4}$$

$$\boxed{y = 1.25}$$

6) Solve for x:

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

Show your work here	For each step, explain why
$-1.8x + 6.3 = 9.7 + 5.1x$ $\underline{-1.8x} \qquad\qquad \underline{-1.8x}$	To get the x on the one side
$6.3 = 9.7 + (-2.83x)$ $6.3 - 9.7 = 9.7 - 9.7 + (-2.83x)$	To get -2.83x by itself
$\dfrac{-3.4}{-2.83} = \dfrac{-2.83x}{-2.83}$	
$\boxed{1.2014 = x}$	To get x by itself

7) Solve for x:

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

$$-13.8 + 6.3x = 21.1x + (-5.9)$$
$$\underline{6.3} \quad \underline{6.3}$$

$$-13.8 = 3.35x + (-5.9)$$

$$-13.8 + 5.9 = 3.35x + (-5.9) + 5.9$$

$$\frac{-7.1}{3.35} = \frac{3.35x}{3.35}$$

$$\boxed{-2.119 = x}$$

8) Solve for y:

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

Show your work here	For each step, explain why
$y + 8.2 = -3.4y + (-11.6)$ $\quad\underline{}\quad\quad\underline{}$	To get y on oneside
$11.6 + 8.2 = -3.4y + (-11.6) + 11.6$	To get 3.4y by itself
$\dfrac{19.8}{3.4} = \dfrac{3.4y}{3.4}$	To get y by itself.
$\boxed{5.8235 = y}$	

9) Solve for x:
$$\frac{3x+8}{7} = -12x$$

$$\frac{0.4285x+1.14 = -12x}{6.4285 \quad \cancel{12.14} \quad 0.4285}$$

$$\frac{1.14 = -28x}{-28 \quad -28}$$

$$\boxed{-0.0407 = x}$$

10) Solve for x:
$$12.6x + 21.1 + (-7.4x) = -9.2x + 15.8$$

$$\frac{5.2x+21.1}{5.2} = \frac{-9.2x}{5.2} + 15.8$$

$$15.8-21.1 = -1.77x + 15.8 - 15.8$$

$$\frac{5.3}{1.77} = \frac{-1.77x}{-1.77}$$

$$\cancel{3} -3 = x$$