

Unit 18 Review of Linear Equations – Form B

Ret.

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.

Contn. Prd. 3

1) Solve for y

$$9 + 2y = 4$$

0.5y = -5
y = -10

2) Solve for x:

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

x = -36

3) Solve for x:

$$2x + 5x = 6$$

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

$$x = 0.857$$

4) Solve for y:

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

Show your work here	For each step, explain why
$10y + (-7) = 5$ $10y + (-7) - (-7) = 5 - (-7)$ $\frac{10y}{10} = \frac{12}{10}$ $y = 1.2$	<p>first I subtracted negative 7 from both sides then I divided both sides by 10 to get y = 1.2</p>

5) Solve for y:

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

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

$$7 = -21 + 10y$$

$$-3 - 7 = -10 + 10y$$

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

$$y = 1$$

6) Solve for x:

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

Show your work here	For each step, explain why
$(-1.8x + 1.8) + 6.3 = 9.7 + 5.1x + 1.8$ $6.3 = 4.7 + 6.9x$ $6.3 - 4.7 = 4.7 + 6.9x - 4.7$ $1.6 = 6.9x$ $\frac{1.6}{6.9} = \frac{6.9x}{6.9}$ $x = 0.23188$	<p>First I added 1.8 to both sides to get rid of the -1.8x.</p> <p>Then I subtracted 4.7 from both sides to get 1.6 = 6.9x.</p> <p>Then I divided both sides by 6.9 to get x = 0.23188.</p>

7) Solve for x:

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

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

$$-13.8 + -13.8 = 14.8x + \cancel{-5.9 + 5.9}$$

$$\frac{-27.6}{14.8} = \frac{14.8x}{14.8}$$

$$x = -1.86$$

8) Solve for y:

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

Show your work here	For each step, explain why

9) Solve for x :

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

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

/

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

/

$$87x = -8$$

/

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

10) Solve for x :

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

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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.

Conho. Pro. 3

1) Solve for y

$$9 + 2y = 4$$

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

$$2y = 4 - 9$$

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

$$y = -2.5$$

2) Solve for x:

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

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

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

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

$$x = 36$$

3) Solve for x:

$$2x + 5x = 6$$

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

$$x = .857$$

4) Solve for y:

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

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

5) Solve for y:

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

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

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

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

$$\frac{-6y}{-6} = \frac{-10}{-6}$$

$$y = 1 \frac{5}{3}$$

6) Solve for x:

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

Show your work here	For each step, explain why
$-1.8x + 6.3 = 9.7 + 5.1x$ $-1.8x = 3 + 5.1x$ $-6.9x = 3$ $x = -\frac{3}{6.9}$	<p>Subtract 6.3 from both sides</p> <p>Combine like terms</p> <p>Divide by both sides</p>

7) Solve for x:

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

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

$$-19.7 = 14.8x$$

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

$$x = -1.329$$

8) Solve for y:

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

Show your work here	For each step, explain why
$y + 8.2 - 8.2 = -3.4y + (-11.6) - 8.2$ $y = -3.4y - 19.8$ $\frac{-3.4y}{-3.4} = \frac{-19.8}{-3.4}$ $y = 5.8235$	<p>Subtract 8.2 from both sides</p> <p>Combine like terms</p> <p>Divide both sides by -3.4</p> <p>$y = 5.8235$</p>

9) Solve for x:

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

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

$$\frac{87x}{87} = \frac{-88}{87}$$

$$x = -1.01$$

10) Solve for x:

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

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

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

$$14.4x = -5.3$$

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Conho, Arel-3

1) Solve for y

$$9 + 2y = 4$$

$$\begin{array}{r} -2y \\ 9 = 2y \\ \hline 2 \end{array}$$

$$y = 4.5$$

2) Solve for x:

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

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

$$x = -13$$

3) Solve for x:

$$2x + 5x = 6$$

$$x(2+5) = 6$$

$$\frac{x(2+5)}{2+5} = \frac{6}{2+5}$$

$$\cancel{x}(2+5)$$

$$x = 0.85714$$

4) Solve for y:

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

Show your work here	For each step, explain why
$4y + (-7) = 5 + 6y$ $\begin{array}{r} 4y = 5 + -7 + 6y \\ +6y \end{array}$ $6y + 4y = 5 + -7$ $y(6+4) = 5 + -7$ $\frac{y(6+4)}{6+4} = \frac{5 + -7}{6+4}$ $y = 3.\bar{66}$	<p>- divide both sides by -7</p> <p>Add both sides by 6y to put on left side of problem</p> <p>- Factor common factor</p> <p>- Divide both sides</p>

x 2y

5) Solve for y:

$$\begin{aligned}
 7 + (-8y) &= -3 + 2y + (-8y) \\
 7 &= -3 + 2y + (-8y) \\
 -3 + 7 &= 2y + (-8y) \\
 \frac{-3+7}{2+8} &= \frac{y(2+8)}{2+8} \\
 0.4 &= y
 \end{aligned}$$

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 + \cancel{6.3} &= 9.7 + 5.1x + 6.3 \\ -1.8x &= 9.7 + 5.1x + 6.3 \\ -1.8x + 5.1x &= 9.7 + 6.3 \\ x(-1.8 + 5.1) &= 9.7 + 6.3 \\ \frac{(-1.8 + 5.1)}{-1.8 + 5.1} &= \frac{9.7 + 6.3}{-1.8 + 5.1} \quad \frac{16}{49.2} \\ x &= 0.32520 \end{aligned} $	<p>divide -6.3.</p> <p>+5.1 to left side</p> <p>factor common factor</p> <p>Solve.</p>

7) Solve for x:

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

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

$$\frac{-5.9 + -13.8}{21.1 + 6.3} = \frac{21.1 + 6.3}{21.1 + 6.3}$$

$$0.288321167 = x$$

8) Solve for y:

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

Show your work here	For each step, explain why
$y + -11.6 + 8.2 = -3.4y + y$ $\frac{-11.6 + 8.2}{-3.4} = \frac{y(-3.4)}{-3.4}$ $-14.01176471 = y$	<ul style="list-style-type: none"> - subtract -11.6 from both sides. - + y to both sides. - factor common factor - divide -3.4 to both sides. - solve.

9) Solve for x :

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

Don't know

10) Solve for x :

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

Don't know.

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Conho. pnd. 3

1) Solve for y

$$9 + 2y = 4$$

$$y = -10$$

2) Solve for x:

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

$$x = 5$$

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
$y = 2$	I multiplied 2 by 6 and 4.

5) Solve for y:

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

$$y = -3$$

6) Solve for x:

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

Show your work here	For each step, explain why
$x = 2.4$	I multiplied 2.4 by -1.8 and 5.1.

7) Solve for x:

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

$$x = 3.4$$

8) Solve for y:

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

Show your work here	For each step, explain why
$y = 1.3$	I multiplied 1.3 by - 3.4 and added 1.3 to 8.2.

9) Solve for x :

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

$$x = 2$$

10) Solve for x :

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

$$x = 6.5$$

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Conho. Prd. 3

1) Solve for y

$$9 + 2y = 4$$

$$2y + 9 = 4$$

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

$$2y = -5$$

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

$$y = -2.5$$

2) Solve for x:

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

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

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

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

$$x = 36$$

3) Solve for x:

$$2x + 5x = 6$$

$$7x = 6$$

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

$$x = 0.857142857$$

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 + (-7) = 5 + 6y \\ -(-7) \quad -(-7) \\ \hline 4y = 6y + 12 \\ 4y = 6y + 12 \\ -6y \quad -6y \\ \hline -2y = 12 \\ \frac{-2y}{-2} = \frac{12}{-2} \\ y = -6 \end{array} $	<p>original problem</p> <p>subtract -7 from both sides</p> <p>subtract</p> <p>subtract 6y from both sides</p> <p>subtract</p> <p>divide both sides by -2</p> <p>divide</p>

5) Solve for y:

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

6) Solve for x:

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

Show your work here	For each step, explain why
$ \begin{array}{r} -1.8x + 6.3 = 9.7 + 5.1x \\ -1.8x + 6.3 = 9.7 + 5.1x \\ -6.3 \quad -6.3 \\ \hline -1.8x = 5.1x + 3.4 \\ 1.8x = 5.1x + 3.4 \\ -5.1x \quad -5.1x \\ \hline -6.9x = 3.4 \\ 6.9x = 3.4 \\ -6.9 \quad -6.9 \\ \hline x = 0.492753623 \end{array} $	<p>original problem</p> <p>subtract 6.3 from both sides</p> <p>subtract</p> <p>subtract 5.1x from both sides</p> <p>subtract</p> <p>divide -6.9 from both sides</p> <p>divide</p>

7) Solve for x:

$$\begin{aligned}
 -13.8 + 6.3x &= 21.1x + (-5.9) \\
 -(-13.8) &\quad -(-13.8) \\
 6.3x &= 21.1x + 7.9 \\
 6.3x &= 21.1x + 7.9 \\
 -21.1x &\quad -21.1x \\
 \hline
 -5.8x &= 7.9 \\
 -5.8x &= 7.9 \\
 \hline
 -5.8 &\quad -5.8 \\
 \hline
 x &= -1.362068966
 \end{aligned}$$

8) Solve for y:

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

Show your work here	For each step, explain why
$y + 8.2 = -3.4y + (-11.6)$	Original problem
$y + 8.2 = -3.4y + (-11.6)$	Subtract 8.2 from both sides
-8.2	Subtract
$y = -3.4y + (-19.8)$	
$y = -3.4y + (-19.8)$	Subtract both sides by
$-(-3.4y)$	$-3.4y$
$4.4y = -19.8$	Subtract
$4.4y = -19.8$	divide both sides by 4.4
4.4	divide
$y = -4.5$	

9) Solve for x:

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

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

$$3x+8 = -12x \cdot 7$$

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

$$3x = -12x \cdot (-1)$$

$$3x = -12x \cdot (-1)$$

$$-(-12x) - (-12x)$$

$$15x = -1$$

$$\begin{array}{r} 15x = -1 \\ 15 \quad 15 \end{array}$$

$$x = -0.066666$$

10) Solve for x:

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

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

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

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

$$5.2x = -9.2x + (-5.3)$$

$$5.2x = -9.2x + (-5.3)$$

$$-(-9.2x) - (-9.2x)$$

$$14.4x = -5.3$$

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

$$x = 0.368055$$

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Conho. Prod. 3

1) Solve for y

$$9 + 2y = 4$$

$$2y = -5$$

$$y = -2.5$$

2) Solve for x:

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

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

$$4x = -36$$

$$x = -9$$

1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100.

1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100.

3) Solve for x:

$$2x + 5x = 6$$

$$7x = 6$$

$$x = 0.857$$

4) Solve for y:

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

| Show your work here | For each step, explain why |
|---------------------|---|
| $4y - 7 = 5 + 6y$ | ① I re-wrote the problem, eliminating the parentheses |
| $4y = 12 + 6y$ | ② I added 7 to both sides |
| $-2y = 12$ | ③ I re subtracted $4y$ from both sides |
| $y = -6$ | ④ I divided by -2 on both sides |

5) Solve for y:

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

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

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

$$-10y = -10$$

$$y = 1$$

6) Solve for x:

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

| Show your work here | For each step, explain why |
|----------------------------|---|
| $-1.8x + 6.3 = 9.7 + 5.1x$ | ① I rewrote the problem |
| $-1.8x = 3.4 + 5.1x$ | ② I subtracted 6.3 from both sides |
| $-6.9x = 3.4$ | ③ I subtracted 5.1x from both sides |
| $x = -0.4928$ | ④ I divided -6.9 from both sides to get my answer |

7) Solve for x:

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

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

$$6.3x - 21.1x = -19.7$$

$$-14.8x = -19.7$$

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

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 I re-wrote the problem |
| $y - 3.4y = -3.4 - 19.8$ | ② I subtracted 8.2 from both sides |
| $-2.4y = -23.2$ | ③ I added $-3.4y$ to both sides |
| $y = 9.666\overline{6}$ | ④ I divided both sides by -2.4 |

9) Solve for x:

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

$$21x + 56 = -12x$$

$$21x = -12x - 56$$

$$33x = -56$$

$$x = \overset{\text{r8 of them}}{-1.697}$$

10) Solve for x:

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

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

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

$$5.2x = -9.2x - 5.3$$

$$14.4x = -5.3$$

$$x = -0.36805$$

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Det.

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Conho. Rd. 3

1) Solve for y

$$\begin{aligned} 9 + 2y &= 4 \cdot 9 \\ 2y &= -5 \\ y &= -2.5 \end{aligned}$$

2) Solve for x:

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

3) Solve for x:

$$2x + 5x = 6$$

~~$$x = 6$$~~

$$x = 0.8571$$

4) Solve for y:

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

| Show your work here | For each step, explain why |
|---|--|
| $\begin{array}{l} 4y + (-7) = 5 + 6y \\ -6y \quad -6y \\ \hline -2y + (-7) = 5 + 7 \\ -2y = 12 \\ \div -2 \quad \div -2 \\ \hline y = -6 \end{array}$ | <p>First I combined like terms. Then I added 7 to both sides. After that I divided by -2 on both sides to get my answer.</p> |

5) Solve for y:

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

$$\cancel{-7} - 6y = -3 - 7$$

$$\cancel{-8y} = \frac{-10}{-6}$$

$$y = 1.6666$$

6) Solve for x:

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

| Show your work here | For each step, explain why |
|--|----------------------------|
| $\begin{array}{r} -6.9x + 6.3 = 9.7 - 6.3 \\ -6.3 \\ \hline -6.9x = 3.4 \\ \hline -6.9 \quad -6.9 \\ \hline x = -0.49 \end{array}$ | |

7) Solve for x:

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

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

$$\begin{array}{r} -14.8x = -7.9 \\ \hline -14.8 \quad -14.8 \\ \hline x = -0.53 \end{array}$$

8) Solve for y:

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

| Show your work here | For each step, explain why |
|---|--|
| $\begin{array}{r} y + 8.2 = -3.4y + (-11.6) \\ +3.4y \quad +3.4y \\ \hline 4.4y + 8.2 = -11.6 \\ -8.2 \quad -8.2 \\ \hline 4.4y = -19.8 \\ \hline 4.4 \quad 4.4 \\ \hline y = -4.5 \end{array}$ | <p>I combined like terms, then I subtracted 8.2 from both sides. Then I divided both sides by 4.4.</p> |

9) Solve for x:

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

10) Solve for x:

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

~~+7.4x~~ ~~+7.4x~~

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

~~-9.2x~~ ~~-9.2x~~

$$10.8x + 21.1 = 15.8$$

~~-21.1~~ ~~-21.1~~

$$\frac{10.8x}{10.8} = \frac{-5.3}{10.8}$$

$$x = -0.4907$$

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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.

Contra. Prod. 3

1) Solve for y

$$9 + 2y = 4$$

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

$$y = 2.5$$

2) Solve for x:

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

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

$$x = 36$$

3) Solve for x:

$$2x + 5x = 6$$
$$\frac{5x = 6}{5} \quad \frac{5}{5}$$
$$x = 1.2$$

4) Solve for y:

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

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

5) Solve for y:

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

+8y

$$7 = -3 + 2y$$

+3

$$4 = 2y$$

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

$$y = 2$$

6) Solve for x:

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

+1.8x

+1.8x

| Show your work here | For each step, explain why |
|---|--|
| $6.3 = 9.7 + 6.9x$ $-9.7 \quad -9.7$ $-3.4 = 6.9x$ $\frac{-3.4}{6.9} = \frac{6.9x}{6.9}$ $x \rightarrow .49275$ | $+1.8x$ $=9.7$ $\frac{6.9}{6.9}$ $x = 49275$ |

7) Solve for x:

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

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

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

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

$$x = 0.53378$$

8) Solve for y:

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

| Show your work here | For each step, explain why |
|--|--|
| $\begin{array}{r} 8.2 = -3.4y + 11.6 \\ \hline 6.5 = -3.4y \\ \hline y = 1.91 \end{array}$ | $\begin{array}{r} -y \\ -11.6 \\ -3.4 \end{array}$ |

9) Solve for x:

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

$-15x$

$$x = 7$$

$$x = 5$$

10) Solve for x:

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

$$-1.1x - 9.2x + 15.8$$

$$x = 7$$

Unit 18 Review of Linear Equations – Form B

Dot.

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.

Contw. Ard. 3

1) Solve for y

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

$$y = -2.5$$

2) Solve for x:

$$\begin{array}{r} \frac{x}{-4} + 6 = -3 \\ -6 \quad -6 \\ \hline \frac{x}{-4} = -9 \\ (-4) \frac{x}{-4} = -9 \cdot (-4) \\ \hline 136 \times \end{array}$$

3) Solve for x:

$$2x + 5x = 6$$

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

$$x = 0.86$$

4) Solve for y:

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

| Show your work here | For each step, explain why |
|---|---|
| $4y + (-7) = 5 + 6y$ $10y + (-7) = 5$ $\begin{array}{r} +7 \quad +7 \\ \hline 10y = 12 \\ 10 \quad 10 \end{array}$ $\boxed{1y = 1.2}$ | <p>I took and added like terms then I added $-7 + 7$ and $5 + 7$ and got $10y = 12$ then I divided by 10 and got my answer of $y = 1.2$</p> |

5) Solve for y:

$$\begin{aligned}
 7 + (-8y) &= -4 + 2y \\
 10 + (-8y) &= 0 \\
 +8y &+8y \\
 10 &= 8y \\
 10 &10 \\
 y &= 1
 \end{aligned}$$

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 &-9.7 - 9.7 - 5.1x \\ -3.4 &= 6.9x \\ \underline{6.9} &\quad \underline{6.9} \\ x &= -0.49 \end{aligned} $ | <p>I took and subtracted 9.7 then I took and added 1.8x and got -3.4 = 6.9x and got -0.49 = x.</p> |

7) Solve for x:

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

$$\begin{array}{r} -13.8 \\ + 5.9 \\ \hline -7.9 \end{array} \quad \begin{array}{r} 6.3x \\ - 21.1x \\ \hline -14.8x \end{array} \quad \begin{array}{r} (-5.9) \\ + 5.9 \\ \hline 0 \end{array}$$

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

$$x = -0.534$$

8) Solve for y:

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

| Show your work here | For each step, explain why |
|---|--|
| $\begin{array}{r} y + 8.2 = -3.4y + (-11.6) \\ +3.4 \quad +3.4 \\ \hline 4.4y + 8.2 = (-11.6) \\ -8.2 \quad -8.2 \\ \hline 4.4y - 3.4 \\ \hline 4.4 \quad 4.4 \\ \hline \end{array}$ $y = -0.773$ | <p>I took and added 3.4 to the y and got $4.4y + 8.2 = -11.6$ then I subtracted 8.2 and got $4.4y = -3.4$ and got my answer of $y = -0.773$</p> |

9) Solve for x:

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

$$\begin{array}{r} 31x + 86 = -12x \\ -21 \quad -21x \end{array}$$

$$\begin{array}{r} 56 \quad -33x \\ \hline 56 \quad 56 \end{array}$$

$$\boxed{1 - 0.59 = x}$$

10) Solve for x:

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

$$\begin{array}{r} -4x + 21.1 = 15.8 \\ -21.1 \quad -21.1 \end{array}$$

$$\begin{array}{r} -4x = -5.3 \\ \hline -4 \quad 4 \end{array}$$

$$\boxed{x = 1.325}$$

Unit 18 Review of Linear Equations – Form B

Ret.

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.

Conho. Ard. 3

1) Solve for y

$$9 + 2y = 4$$

$$2y = -5$$

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

$$y = -2.5$$

2) Solve for x:

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

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

$$x = 36$$

3) Solve for x:

$$2x + 5x = 6$$

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

$$x = 0.857$$

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 -5 \\ \hline 4y - 6y = 12 \end{array} $ | $4y - 6y = 12$ |

5) Solve for y:

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

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

6) Solve for x:

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

| Show your work here | For each step, explain why |
|---|---|
| $\begin{array}{r} -1.8x - 5.1x = 9.7 - 6.3 \\ -6.9x = 3.4 \\ x = -0.49 \end{array}$ | $\begin{array}{l} -1.8x - 5.1x = 9.7 - 6.3 \\ \text{Subtract } 5.1x \text{ from both sides} \\ -6.9x = 3.4 \\ \text{Divide both sides by } -6.9 \\ x = -0.49 \end{array}$ |

7) Solve for x:

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

$$\begin{array}{r} -13.8 + 6.3x = 21.1x + (-5.9) \\ +13.8 \quad \quad \quad +13.8 \\ \hline 6.3x = 21.1x + 7.1 \end{array}$$

8) Solve for y:

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

| Show your work here | For each step, explain why |
|--|--|
| $\begin{array}{r} y + 8.2 = -3.4y + (-11.6) \\ +3.4y \quad \quad \quad +3.4y \\ \hline y + 8.2 = -11.6 \\ -8.2 \quad \quad \quad -8.2 \\ \hline y = -19.8 \end{array}$ | <p>I added 3.4y to both sides</p> <p>Then I subtracted 8.2 from both sides</p> |

9) Solve for x:

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

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

$$-12x = 0$$

$$x = -12$$

10) Solve for x:

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

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

$$-21.1$$

$$15.8$$

$$5.2x = -9.2$$

Unit 18 Review of Linear Equations – Form B

Rant.

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.

Contra. Prod. 3

1) Solve for y

$$9 + 2y = 4$$

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

2) Solve for x:

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

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

3) Solve for x:

$$2x + 5x = 6$$

$$2x + 5x = 6 - 5$$

$$\frac{2x}{7} = 1$$

$$x = 2$$

4) Solve for y:

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

| Show your work here | For each step, explain why |
|---|--|
| $4y + (-7) = 5 + 6y$
$4y + (-7) - 6y = 5 + 6y - 6y$
$-2y - 7 = 5$
$-2y = 12$
$y = -6$ | <p>I subtracted $-6y$ from both sides to get the terms with y on one side.</p> |

5) Solve for y:

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

$$\begin{aligned}
 &7 + (-8y) = -3 + 2y \\
 &-15 = 10y \\
 &(-1.5)
 \end{aligned}$$

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 \\ &-9.9 = 9.4x - 9.4 \\ &x = -1.05 \end{aligned} $ | <p>Subtract 6.3 from both sides, then subtract 5.1x from both sides to isolate the variable term.</p> |

7) Solve for x:

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

~~$x = -13.8 + 6.3x$~~ ~~$21.1x + (-5.9)$~~
 $x = -14.8$

8) Solve for y:

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

| Show your work here | For each step, explain why |
|--|--|
| $y + 8.2 = -3.4y + (-11.6)$
8.2
(-7.2) | <p>I subtracted 11.6 and moved it to the right side.
 Canceled it out. I subtracted
 3.4y from both sides.
 then 8.2 and moved it
 to the right side.
 $y = -7.2$</p> |

9) Solve for x:

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

$$\frac{11}{4} = 12x$$

$$x = \frac{11}{48}$$

10) Solve for x:

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

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

$$-28.5x$$

$$x = 2.2619$$

$$-9.2x = 15.8$$

$$x = 2.913$$

Unit 18 Review of Linear Equations – Form B

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.

Conho. Prd. 3

1) Solve for y

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

$$y = -2.5$$

2) Solve for x:

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

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

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

$$x = .44$$

3) Solve for x:

$$2x + 5x = 6$$

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

$$x = .857$$

$$x = 85.71$$

4) Solve for y:

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

| Show your work here | For each step, explain why |
|---|--|
| $4y + (-7) = 5 + 6y$
$\frac{10y}{10} = \frac{-2}{10}$
$y = -.2$ | <p>1. re wrote problem to work it out</p> <p>2. combine like terms to make it smaller</p> <p>3. divide to get x</p> <p>4. get answer</p> |

5) Solve for y:

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

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

$$y = -\overline{.66}$$

6) Solve for x:

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

| Show your work here | For each step, explain why |
|---|--|
| $\begin{array}{r} -1.8x + 6.3 = 9.7 + 5.1x \\ 3.3x = \underline{16} \\ 3.3 \quad 3.3 \\ x = \underline{4.84} \end{array}$ | <ol style="list-style-type: none">1. rewrote problem to solve it2. combine like terms3. divide4. get answer |

7) Solve for x:

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

$$\frac{27.4x}{27.4} = \frac{-19.7}{27.4}$$

$$x = -0.718978102$$

$$x = -71.89$$

8) Solve for y:

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

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

$4.4y = -19.8$
$\frac{4.4y}{4.4} = \frac{-19.8}{4.4}$
$y = -4.5$
$y = -4.5$ | 1. rewrote problem to solve it.
2. Combine like terms to make it smaller & easier
3. divide to get answer
4. got x
5. moved decimal |

9) Solve for x:

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

~~$\frac{12x+8}{7}$~~ ~~3x~~

~~$\frac{15x+8}{7}$~~

$$\frac{15x+8}{7}$$

10) Solve for x:

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

$$\frac{3.4x = 36.9}{3.4 \quad 3.4}$$

$$x = 10.85294118$$

Unit 18 Review of Linear Equations – Form B

Ret.

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.

Conkoo. Prd. 3

1) Solve for y

$$\begin{array}{r} 9 + 2y = 4 \\ -9 = -9 \\ \hline 5 + 2y = -5 \\ -2y = -10 \\ \hline y = 5 \end{array}$$

2) Solve for x:

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

$$\begin{array}{r} \frac{x}{-4} + 6 = -3 \\ -6 = -6 \\ \hline \frac{x}{-4} = -9 \\ \cdot (-4) = 36 \\ \hline x = 36 \end{array}$$

3) Solve for x:

$$2x + 5x = 6$$

$$7x = 6$$

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

4) Solve for y:

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

| Show your work here | For each step, explain why |
|---|--|
| $4y + (-7) = 5 + 6y$ $4y + (-7) - 4y = 5 + 6y - 4y$ $-7 = 5 + 2y$ $-7 - 5 = 5 + 2y - 5$ $-12 = 2y$ $y = -6$ | <p>Combine like terms</p> <p>Subtract 4y from both sides</p> <p>Subtract 5 from both sides</p> <p>Divide both sides by 2</p> |

5) Solve for y:

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

$$\begin{aligned} -8y &= -10 \\ y &= \frac{5}{4} \end{aligned}$$

6) Solve for x:

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

| Show your work here | For each step, explain why |
|--|---|
| $\begin{aligned} -1.8x + 6.3 &= 9.7 + 5.1x \\ -6.9x &= 3.4 \\ 101.1x &= 9.7 \\ x &= 0.096 \end{aligned}$ | <p>CC: $-1.8x + 6.3 = 9.7 + 5.1x$
 CC: $-6.9x = 3.4$
 CC: $101.1x = 9.7$
 CC: $x = 0.096$</p> |

7) Solve for x:

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

$$-7.4x + (-5.9)$$

$$x = 2.158$$

8) Solve for y:

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

| Show your work here | For each step, explain why |
|---|--|
| $y + 8.2 = -3.4y + (-11.6)$
$3.5y + 8.2 = -11.6$
$(y = -2.1)$ | <p>Combined like terms</p> <p>Subtracted 8.2 from both sides and took number over</p> <p>$y = -2$</p> |

9) Solve for x:

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

$$3x + 8 = -84$$

$$3x = -92$$

$$x = -30\frac{2}{3}$$

10) Solve for x:

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

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

$$x = -1.1$$

Unit 18 Review of Linear Equations – Form B

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.

Contno. Prob. 3

1) Solve for y

$$9 + 2y = 4$$

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

$$2y = -5$$

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

$$y = (-2.5)$$

2) Solve for x:

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

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

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

$$x / -4 \cdot -4 = -9 \cdot -4$$

$$x = 36$$

3) Solve for x:

$$2x + 5x = 6$$

$$\begin{array}{r} 7x = 6 \\ 7 = \cancel{6} \\ x = .85 \end{array}$$

4) Solve for y:

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

| Show your work here | For each step, explain why |
|---|---|
| $\begin{array}{r} 4y + -7 + +7 = 5 + 7 + 6y \\ 4y = 12 + 6y \\ 10y = 12 \\ \frac{10y}{10} = \frac{12}{10} \\ y = 1.2 \end{array}$ | <p>to get rid of 7</p> <p>Added y's
divided</p> <p>final
answer</p> |

5) Solve for y:

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

$$7 = -3 + 10y$$

$$\begin{array}{r} 10 + 10y \\ \hline 10 \end{array} \quad \begin{array}{r} 10 \\ 10 \end{array}$$

$$y = 1$$

6) Solve for x:

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

| Show your work here | For each step, explain why |
|--|--|
| $6.3 = 9.7 + 6.9x$ $6.3 - 9.7 = 9.7 - 9.7 + 6.9x$ $\frac{-3.4}{6.9} = \frac{6.9x}{6.9}$ $-.4927 = x$ | <p>added $-1.8x$ to $5.1x$</p> <p>got rid of 9.7</p> <p>divided</p> <p>final answer</p> |

7) Solve for x:

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

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

$$-13.8 + 5.9 = 14.8x$$

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

$$-0.53 = x$$

8) Solve for y:

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

| Show your work here | For each step, explain why |
|---|--|
| $8.2 = 4.4y + (-11.6)$ $8.2 - 11.6 = 4.4y$ $19.8 = 4.4y$ $\begin{array}{r} 4.4 \overline{) 19.8} \\ 4.4 \\ \hline \end{array}$ $4.5 = y$ | <p>added y's</p> <p>added 8.2 and 11.6</p> <p>divided 19.8 by 4.4 to get final answer of 4.5</p> |

9) Solve for x:

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

$$\frac{8}{7} = 9x$$

$$\frac{1.14}{7} = \frac{9x}{9}$$

$$.1269 = x$$

10) Solve for x:

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

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

$$14.4x + 21.1 = 15.8$$

$$\frac{14.4x}{14.4} = \frac{-6.7}{14.4}$$

$$x = .465277778$$

Unit 18 Review of Linear Equations – Form B

Ret.

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.

Cont'd. Prd. 3

1) Solve for y

$$9 + 2y = 4$$

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

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

$$y = -2.5$$

2) Solve for x:

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

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

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

3) Solve for x:

$$2x + 5x = 6$$

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

$$x = .857$$

4) Solve for y:

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

| Show your work here | For each step, explain why |
|---------------------|----------------------------|
| $y = 9$ | |

5) Solve for y:

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

$$7 + (-6y) = -3$$

$$7 - 7 + (-6y) = -3 - 7$$

$$\frac{6y - 18}{6} = \frac{-10}{6}$$

$$y = .6$$

6) Solve for x:

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

| Show your work here | For each step, explain why |
|--|----------------------------|
| $-1.8x + 6.3 - 6.3 = 9.7 - 6.3$
$\frac{-1.8x}{-1.8} = \frac{3.4}{-1.8}$
$x = -1.9\overline{7}$ | |

7) Solve for x:

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

~~$-11.7 = 14.8x - 5.9$~~

I don't know

8) Solve for y:

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

| Show your work here | For each step, explain why |
|---|----------------------------|
| $4.4y + 8.2 - 8.2 = (-11.6)$
$y = -.052$ | |

9) Solve for x :

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

$$x = 12x$$

10) Solve for x :

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

$$x = 12.6$$