## Algebra I Worksheet #2 Unit 4 page 1 \_\_\_\_\_

Complete the table for each input-output chart shown to solve for x.

1.

2.

3.

4.

	1.	2.	٥.	10
Input	3x + 4 = 25	3x + 4 = k	3x + n = k	ax + n = k
First Operation	subtract 4 from both sides	subtract 4 from both sides	subtract n from both sides	subtract n from both sides
Output				
Second Operation	divide both sides by 3	divide both sides by 3	divide both sides by 3	divide both sides by a
<b>Output</b>				

	5.	6.	7.	8.
Input	4x + 6 = 34	4x + 6 = c	4x + b = c	$\mathbf{a}\mathbf{x} + \mathbf{b} = \mathbf{c}$
First Operation				
Output				
Second Operation				
Output				

Solve for x.

9. 
$$5x + 15 = 45$$
 10.  $5x + 15 = p$  11.  $5x + k = p$  12.  $nx + k = p$ 

10. 
$$5x + 15 = p$$

11. 
$$5x + k = p$$

$$12. \ \mathbf{n}\mathbf{x} + \mathbf{k} = \mathbf{p}$$

13. 
$$cx + 2 = k$$

$$14 \quad 2v \perp n - d$$

13. 
$$cx + 2 = k$$
 14.  $2x + n = d$  15.  $bx + 7 = 11$  16.  $px + c = 3$ 

16. 
$$px + c = 3$$

## Algebra I Worksheet #2 Unit 4 page 2

Complete the table for each input-output chart shown to solve for x.

17

18

19

20.

	1/.	18.	19.	20.
Input	3x - 6 = 18	3x - 6 = g	3x - n = g	$\mathbf{p}\mathbf{x} - \mathbf{n} = \mathbf{g}$
First Operation Output	add 6	add 6	add n	add n
	to	to	to	to
	both sides	both sides	both sides	both sides
Second	divide	divide	divide	divide
Operation	both sides	both sides	both sides	both sides
Output	by 3	by 3	by 3	by p

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2.2.

23

24

	21.	22.	23.	<b>24.</b>
Input	6x - 3 = 27	6x - 3 = c	6x - b = c	$\mathbf{ax} - \mathbf{b} = \mathbf{c}$
First Operation				
Output				
Second Operation				
<b>Output</b>				

Solve for x.

25. 
$$4x-10=26$$
 26.  $4x-10=k$  27.  $4x-n=k$  28.  $ax-n=k$ 

$$26. \quad 4x - 10 = 1$$

27. 
$$4x - n = k$$

28. 
$$ax - n = 1$$

29. 
$$bx - 5 = t$$

30. 
$$3x - p = 0$$

30. 
$$3x - p = c$$
 31.  $tx - 3 = 5$  32.  $px - b = 2$ 

32. 
$$px - b = 2$$