Algebra I Class Worksheet #2 Unit 4 page 1 _____

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

	1.	2.	3.	4.
Input	**6x + 9 = 21**	**6x + 9 = p**	**6x + t = p**	**mx + t = p**
↓ **First Operation**	**subtract 9 from both sides**	**subtract 9 from both sides**	**subtract t from both sides**	**subtract t from both sides**
↓ **Output**				
↓ **Second Operation**	**divide both sides by 6**	**divide both sides by 6**	**divide both sides by 6**	**divide both sides by m**
↓ **Output**				

	5.	6.	7.	8.
Input	**2x + 7 = 13**	**2x + 7 = k**	**2x + d = k**	**px + d = k**
↓ **First Operation**				
↓ **Output**				
↓ **Second Operation**				
↓ **Output**				

Solve for x.

9. 4x + 14 = 50 **10. 4x + 14 = w** **11. 4x + c = w** **12. ax + c = w**

13. 5x + h = d **14. mx + 8 = f** **15. nx + 5 = 9** **16. dx + e = 8**

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

	17.	18.	19.	20.
Input	**4x – 10 = 14**	**4x – 10 = p**	**4x – c = d**	**kx – c = d**
↓ **First Operation**	**add 10 to both sides**	**add 10 to both sides**	**add c to both sides**	**add c to both sides**
↓ **Output**				
↓ **Second Operation**	**divide both sides by 4**	**divide both sides by 4**	**divide both sides by 4**	**divide both sides by k**
↓ **Output**				

	21.	22.	23.	24.
Input	**3x – 6 = 18**	**3x – 6 = p**	**3x – k = p**	**mx – k = p**
↓ **First Operation**				
↓ **Output**				
↓ **Second Operation**				
↓ **Output**				

Solve for x.

25. 6x – 9 = 15 **26. 6x – 9 = a** **27. 6x – p = a** **28. dx – p = a**

29. 7x – d = m **30. cx – 5 = p** **31. nx – 7 = 1** **32. ax – w = 7**