

Name _____

Date _____ Per _____ A# _____

Unit 3 Review

Complete each table below, and find the rule. Write the rule under the x column.

1.

input (x)	10	5	20		-7	3	x
output (y)	14	9		-4	-3		

2.

input (x)	22	5	11		-9	12	x
output (y)	19	2		-8	-12		

3.

input (x)	10	0	15		-7	6	x
output (y)	25	-5		-8		13	

4.

input (x)	10	-3	4		-5	15	x
output (y)	-30	9	-12	-1			

Solve each equation.

5. $-4 + 3x - 1 = 2x + 1 + 2x$

6. $3 - x = 10$

7. $5x - 3 + 2x = x + 7 + 6x$

8. $9 - (1 - 3x) = 4 + x - (3 - x)$

9. $4x - 8 - 2x = 4$

10. $1 + 2x - 4 = -3 - (-x)$

11. Using any organized method, solve the following problem.

Farmer Frank has 38 barnyard animals, consisting of only chickens and goats. If these animals have 116 legs, how many of each type of animal are there?