Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Block \_\_\_\_\_\_\_\_\_\_\_\_\_

Functions Homework (Day 3)

I. What are the domain and range of the relations represented in the tables below:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| x | 1 | 0 | 1 | 6 | 12 |
| y | -4 | -3 | 7 | 12 | 22 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| x | 5 | 6 | 7 | 8 | 9 |
| y | 13 | 16 | 19 | 22 | 25 |

domain = {\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_} domain = {\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_}

range = {\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_} range = {\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_}

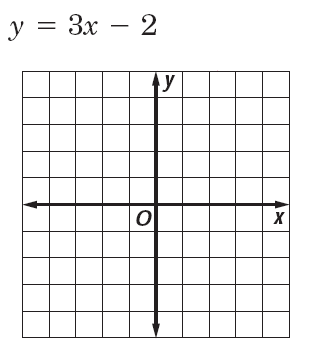
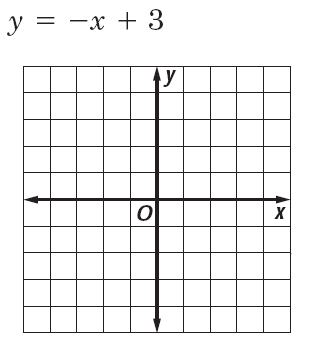
Does the table above represent a function? \_\_\_\_ Does the table above represent a function? \_\_\_\_

Why or why not? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Why or why not? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

II**.** Find four solutions of each equation, and write the equations as ordered pairs.

1. x + y = -2 2. y = -2x + 2 3. y = x/3

III: Graph each equation by plotting ordered pairs.



1. 2.

IV: Identify the independent and dependent variables.

1. total calories, number of slices of bread

DV = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ IV = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. cost of pencils, number of pencils

DV = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ IV = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_