

## Intro to Functions HW 2

Date \_\_\_\_\_ Period \_\_\_\_\_

Identify the domain and range of the function. Tell whether the relation is a function. Explain (in complete sentences).

| 1) Input | Output |
|----------|--------|
| -----    | -----  |
| 0        | 6      |
| 1        | 5      |
| 2        | 4      |
| 1        | 3      |

Domain:

Range:

Function?

| 2) Input | Output |
|----------|--------|
| -----    | -----  |
| -2       | 2      |
| -3       | 2      |
| -1       | 2      |
| -4       | 2      |

Domain:

Range:

Function?

| 3) Input | Output |
|----------|--------|
| -----    | -----  |
| 8        | 8      |
| -9       | -9     |
| -8       | -8     |
| 9        | 9      |

Domain:

Range:

Function?

| 4) Input | Output |
|----------|--------|
| -----    | -----  |
| 0        | 3      |
| 1        | 2      |
| 2        | 1      |
| 3        | 0      |

Domain:

Range:

Function?

| 5) Input | Output |
|----------|--------|
| -----    | -----  |
| 12       | 5      |
|          | 0      |
| 2        | -1     |
| -2       | 6      |

Domain:

Range:

Function?

| 6) Input        | Output |
|-----------------|--------|
| -----           | -----  |
| $\frac{5}{8}$   | 6      |
| $\frac{11}{13}$ | 1      |
| $\frac{1}{2}$   | 2      |

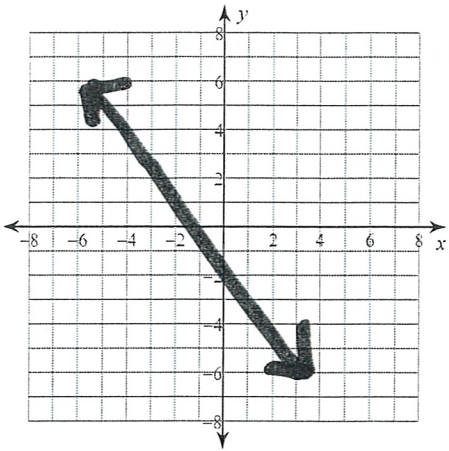
Domain:

Range:

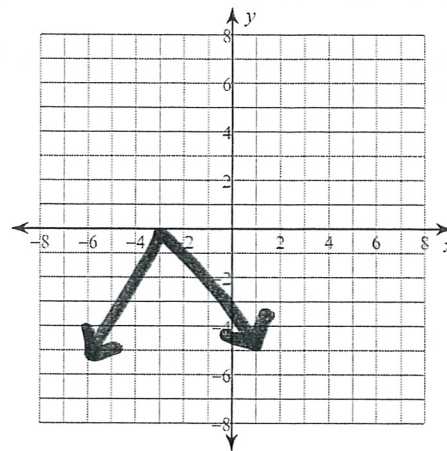
Function?

Tell whether the graphs represent functions. Explain your reasoning (in complete sentences).

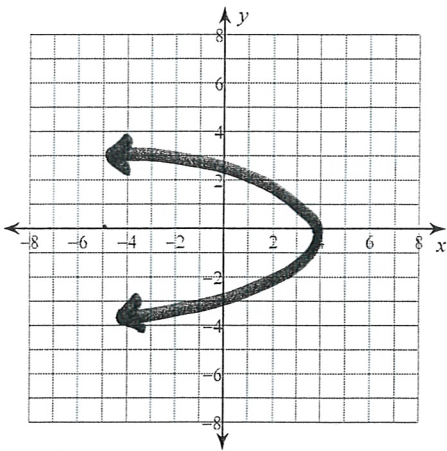
7)



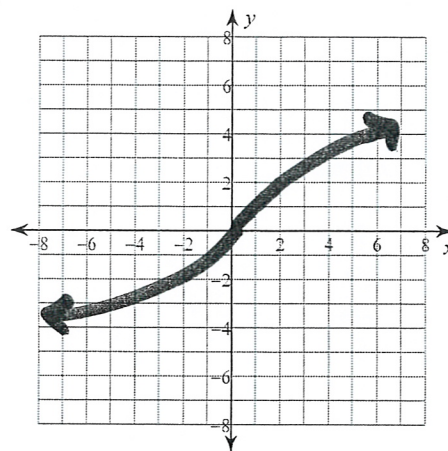
8)



9)



10)



**Simplify each expression.**

11)  $-8(4m + 3) - (6 - 8m)$

**Evaluate each using the values given.**

12)  $yz - \frac{5z}{6}$ ; use  $y = 3$ , and  $z = 6$