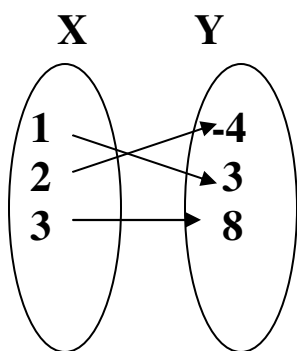


C4L1 Notes

FUNCTIONS AND NONFUNCTIONS

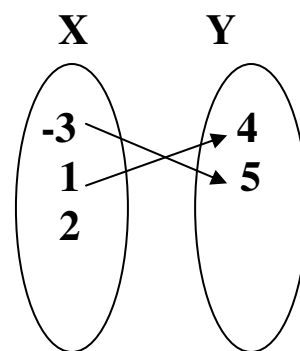
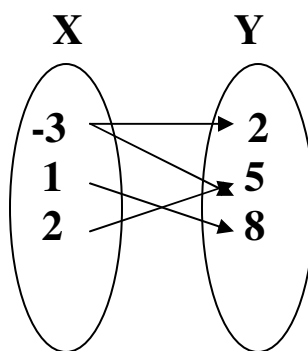
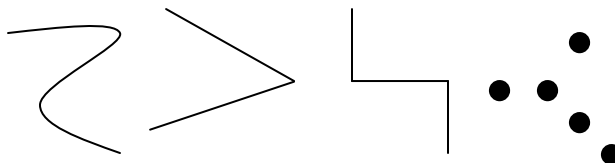
Functions

$\{(3, 1), (-3, 1), (4, 7)\}$



Non-Functions

$\{(-2, 5), (6, 5), (-2, 7)\}$



Determine if the equation represents y as a function of x .

1. $x^2 + y^2 = 4$

2. $2x = 4y^2$

3. $x^2 + y = 6$

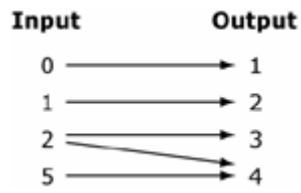
4. $y = \sqrt{x-3}$

5. $y = |3+x|$

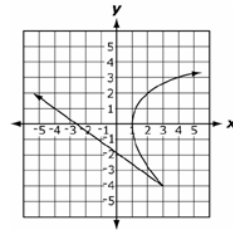
6. $|y| = 3-x$

State whether each relation represents a function.

7.



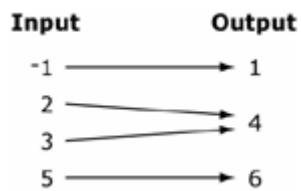
8.



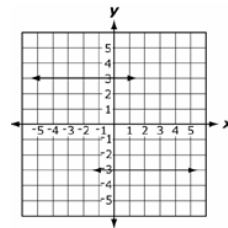
9.

| x | y |
|----|----|
| -4 | -4 |
| -2 | -2 |
| 1 | 0 |
| 1 | 1 |

10.



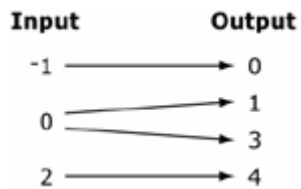
11.



12.

$\{(2, 1), (2, 2), (2, 3)\}$

13.



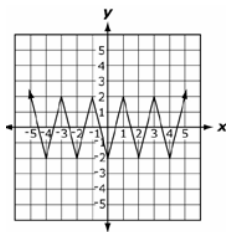
14.

| x | y |
|---|----|
| 0 | 8 |
| 2 | -1 |
| 2 | -1 |
| 5 | 4 |

15.

$\{(0, 0), (0, 1), (1, 0), (1, 1)\}$

16.



17.

$\{(1, 1), (2, 2), (3, 3), (4, 4)\}$