## Exercises

State the domain and range of each relation. Then determine whether each relation is a function

1. Domain


Function: yes or no
2.


Domain: $\qquad$
Range:
Function: yes or no
3.


Domain $\qquad$
Range:
Function:
$\qquad$
4.

$\qquad$

Graph each relation or equation and determine the domain and range.
5. $\{(2,-3),(2,4),(2,-1)\}$


Domain: $\qquad$
Range:

6. $\{(2,6),(6,2)\}$


Domain: $\qquad$
Range: $\qquad$
7. $\{(-3,4),(-2,4),(-1,-1),(3,-1)\}$
8. $x=-2$


Domain:
Range: $\qquad$ -


Find each value if $f(x)=2 x-1$ and $g(x)=2-2 x$
9. $f(0)$
10. $f(12)$
11. $g(4)$
12. $f(-2)$
13. $g(-1)$
14. $f(d)$

Identify the domain and range, then evaluate each function for the given value of x .



Function?
$f(-3)=$


Function?
$f(2)=$


Function?
$f(-2)=$

21] Rewrite the relation given in the table as a mapping diagram.

| $x$ | $y$ |
| :---: | :---: |
| 1 | -2 |
| -3 | -1 |
| 1 | 0 |
| 2 | 2 |
| 0 | 3 |



Is the relation also a function?

Q22] Rewrite the relation given in the scatter plot as a set of urdered pairs (NOT a table).


Is the relation also a function?
determine if each graph shows a function or a relation only.


