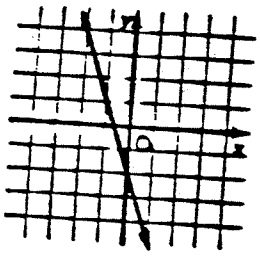
Functions

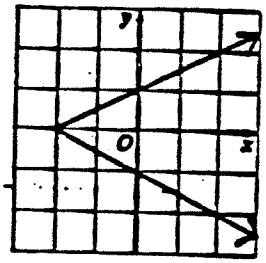
Directions: For each graph
1. determine whether it is a function
2. determine the Domain (use interval notation)
3. determine the Range (use interval notation)

1.



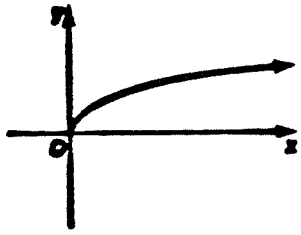
Yes
D: $(-\infty, \infty)$
R: $(-\infty, \infty)$

2.



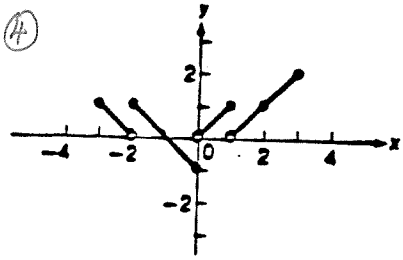
NO
D: $[-2, \infty)$
R: $(-\infty, \infty)$

3.



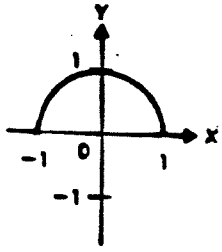
Yes
D: $[0, \infty)$
R: $[0, \infty)$

4.



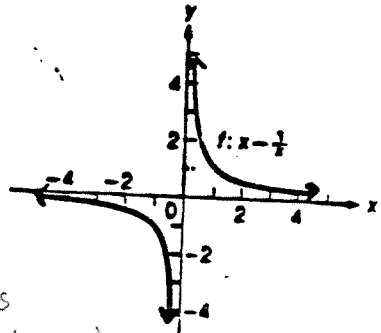
Yes
D: $[-3, 3]$
R: $[-1, 2]$

5.



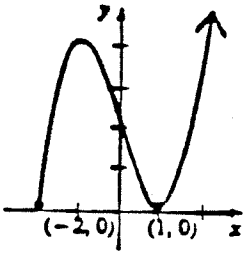
Yes
D: $[-1, 1]$
R: $[0, 1]$

6.



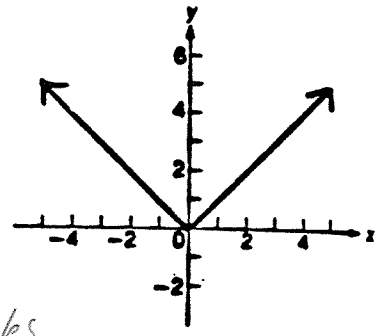
Yes
D: $(-\infty, 0) \cup (0, \infty)$
R: $(-\infty, 0) \cup (0, \infty)$

7.



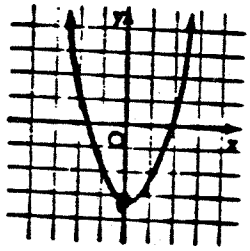
Yes
D: $[-2, \infty)$
R: $[0, \infty)$

8.



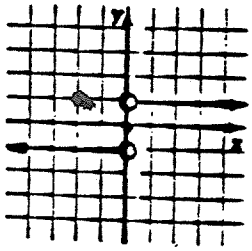
Yes
D: $(-\infty, \infty)$
R: $[0, \infty)$

9.



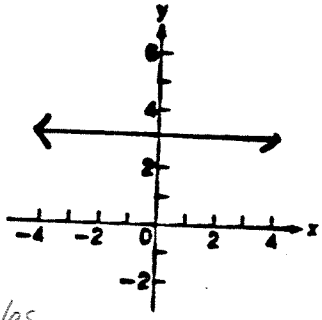
Yes
D: $(-\infty, \infty)$
R: $[-3, \infty)$

10.



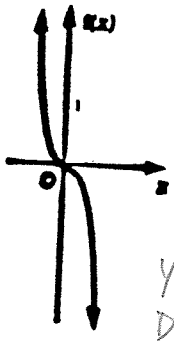
Yes
D: $(-\infty, 0) \cup (0, \infty)$
R: $[-1] \cup [1]$

11.



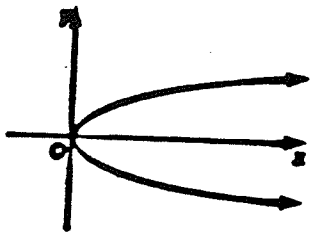
Yes
D: $(-\infty, \infty)$ R: $[3]$

12.



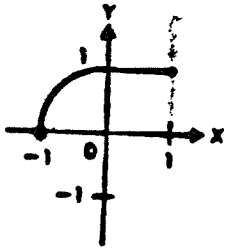
Yes
D: $(-\infty, \infty)$
R: $(-\infty, \infty)$

14.



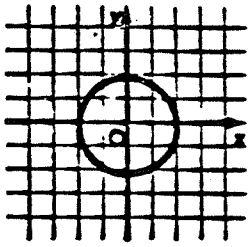
NO
D: $[0, \infty)$
R: $(-\infty, \infty)$

14.



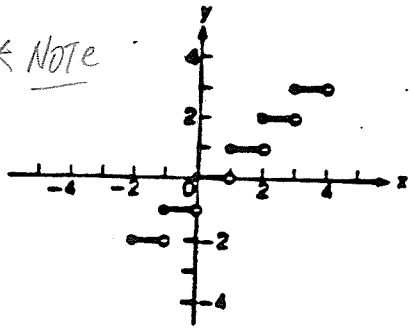
Yes
D: $[-1, 1]$
R: $[0, 1]$

15



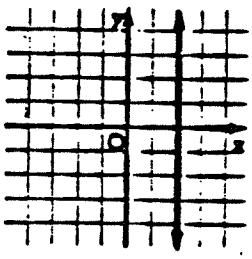
NO
D: $[-2, 2]$
R: $[-2, 2]$

* NOTE



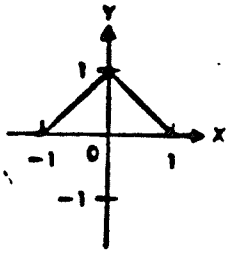
Yes
D: $[-2, 4)$ does not include
R: $[-2] \cup [-1] \cup [0] \cup [1] \cup [2] \cup [3]$

17.



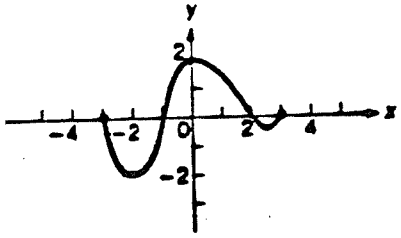
NO
D: $[2]$
R: $(-\infty, \infty)$

18.



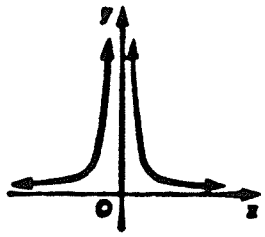
Yes
D: $[-1, 1]$
R: $[0, 1]$

19.



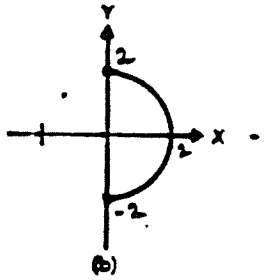
Yes
D: $[-3, 3]$
R: $[-2, 2]$

20.



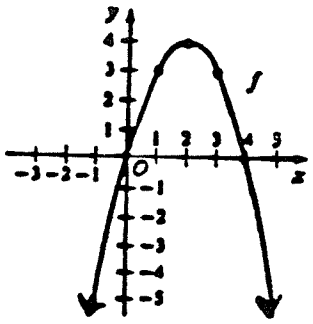
Yes
D: $(-\infty, 0) \cup (0, \infty)$
R: $(0, \infty)$

21.



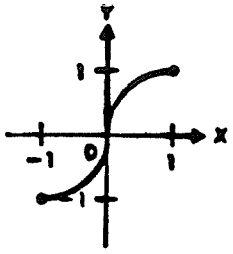
NO
D: $[0, 2]$
R: $[-2, 2]$

2.



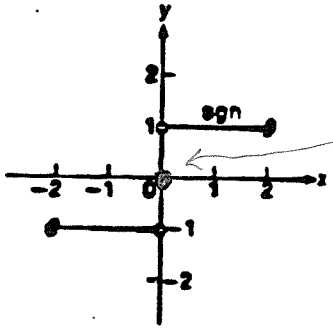
Yes
D: $[-\infty, \infty)$
R: $(-\infty, 4]$

23.



Yes
D: $[-1, 1]$
R: $[-1, 1]$

24.



closed circle

Yes
D: $[-2, 2]$
R: $[-1] \cup [0] \cup [1]$ compare to #16