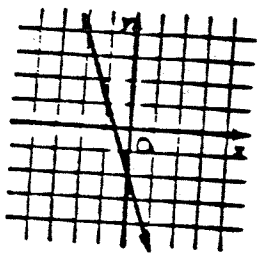


Functions

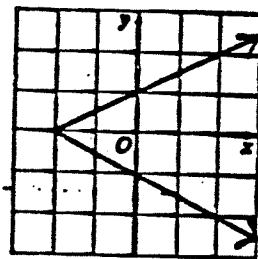
- Directions: For each graph
1. determine whether it is a function
 2. determine the Domain (use interval notation)
 3. determine the Range (use interval notation)

1.



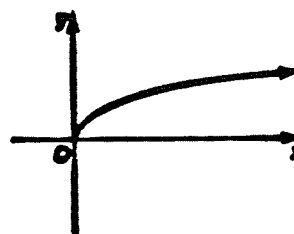
yes
 $D: (-\infty, \infty)$
 $R: (-\infty, \infty)$

2.



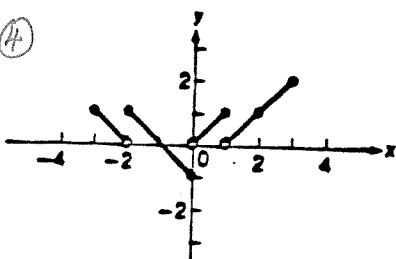
NO
 $D: [-2, \infty)$
 $R: (-\infty, \infty)$

3.



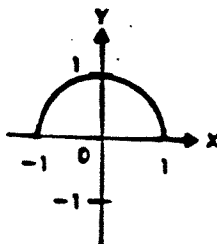
yes
 $D: [0, \infty)$
 $R: [0, \infty)$

4.



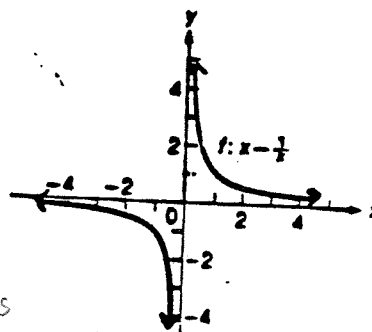
yes
 $D: [-3, 3]$
 $R: [-1, 2]$

5.



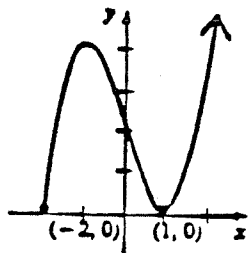
yes
 $D: [-1, 1]$
 $R: [0, 1]$

6.



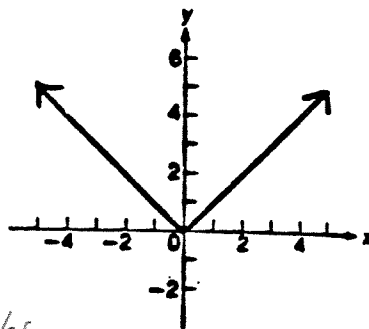
yes
 $D: (-\infty, 0) \cup (0, \infty)$
 $R: (-\infty, 0) \cup (0, \infty)$

7.



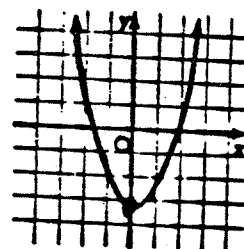
yes
 $D: [-2, \infty)$
 $R: [0, \infty)$

8.



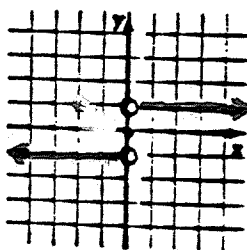
yes
 $D: (-\infty, \infty)$
 $R: [0, \infty)$

9.



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

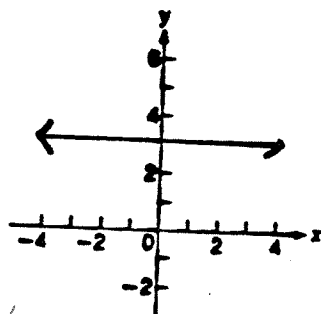
10.



(0, 0) not included

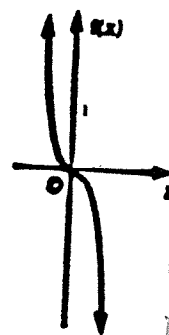
yes
 $D: (-\infty, 0) \cup (0, \infty)$
 $R: [-1] \cup [1]$

11.

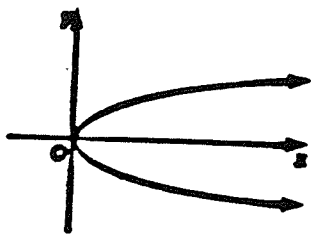


yes
 $D: (-\infty, \infty)$ $R: [3]$

12.

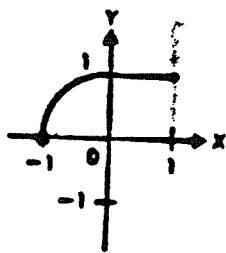


yes
 $D: (-\infty, \infty)$
 $R: (-\infty, \infty)$



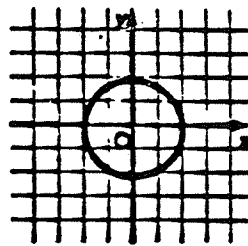
NO
 $D: [0, \infty)$
 $R: (-\infty, \infty)$

14.



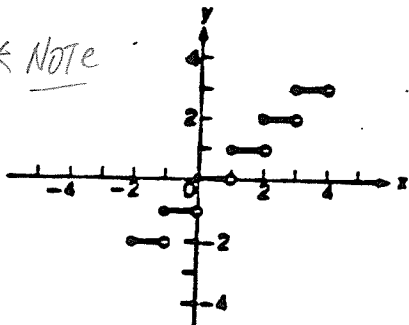
Yes
 $D: [-1, 1]$
 $R: [0, 1]$

15



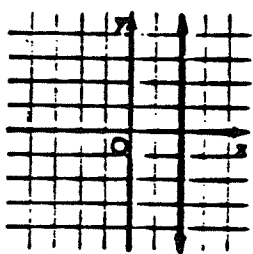
NO
 $D: [-2, 2]$
 $R: [-2, 2]$

* Note



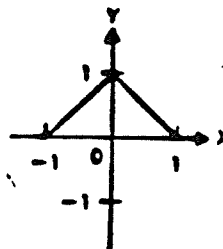
Yes
 $D: [-2, 4)$ does not include
 $R: [-2] \cup [-1] \cup [0] \cup [1] \cup [2] \cup [3]$

17.



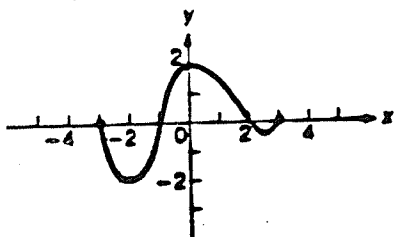
No
 $D: [2]$
 $R: (-\infty, \infty)$

18.



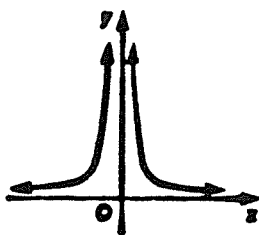
Yes
 $D: [-1, 1]$
 $R: [0, 1]$

19.



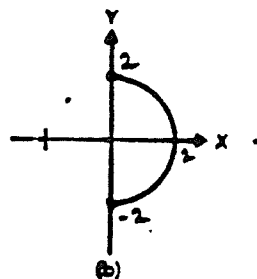
Yes
 $D: [-3, 3]$
 $R: [-2, 2]$

20.

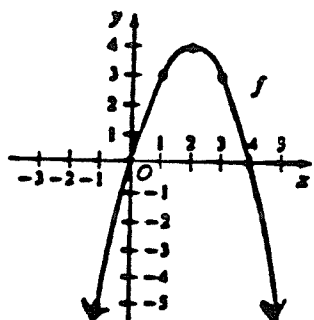


Yes
 $D: (-\infty, 0) \cup (0, \infty)$
 $R: (0, \infty)$

21.

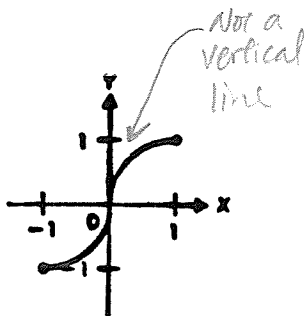


NO
 $D: [0, 2]$
 $R: [-2, 2]$



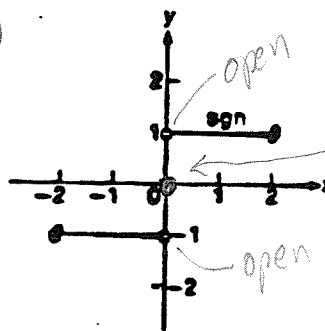
Yes
 $D: (-\infty, \infty)$
 $R: (-\infty, 4]$

23.



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

24.



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