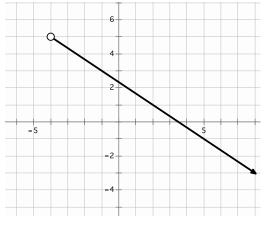
*Use the graph to the right to answer the following questions.* 

- 1. What is the domain of the function?  $(-4, \infty)$
- What is the range of the function?  $(-\infty, 5)$
- NO 3. Is there a defined minimum?
- NO 4. Is there a defined maximum?

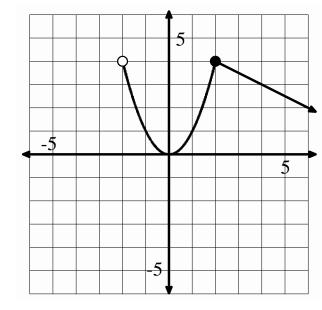


- Is the function increasing, decreasing, constant? Over what intervals?  $\left(-4\right)$
- 6. Is the function continuous, discrete, or not continuous?
- 7. What are the x and y-intercepts? (0, 2.5) (3.5, 0)
- 8. Where is  $f(x) \le 0$ ?  $(3,5, \infty)$  9. Where is f(x) > 1? (-4, 2)
- $12.f(x) = 5, x = \frac{10}{100} \text{ Value}$

- 10. f(x) = 1, x =
- 11. f(5) = \_\_\_\_

*Use the graph to the right to answer the following questions.* 

- 13. What is the domain?  $(-2, \infty)$
- (-∞, 4] 14. What is the range?
- 15. Is there a defined minimum?
- 16. Is there a defined maximum?  $\forall e$ :
- 17. Is the function increasing, decreasing, constant? Over what intervals? Inc: (0,2) Decr: (-2,0) and (2,00)



- 18. Which of the following is *not* a typical feature of a function?
- a. Domain

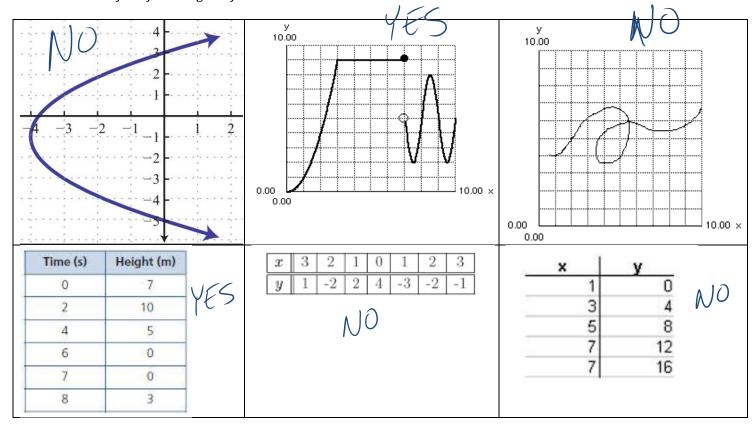
b. Where the function is increasing

c. The scale of the graph

d. The maximum value

I how we display the function, but not part of the function

## *19. Which of the following are functions?*



*Use the discrete table to the right to answer the following questions.* 

20. What is the domain? 
$$\{0,7,4,6,7,8\}$$

21. What is the range? 
$$\{0,3,5,7,10\}$$

Height (m)
7
10
5
0
0
3

Sketch a graph of a function with the following features.

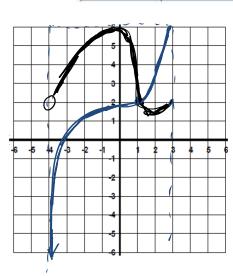
- Domain of (-4, 3]
- *Maximum of 6*
- f(1) = 2

Two are shown

(Infinitely many

possible correct

auswers)



Describe all features of the functions below from the following:

Domain, range, minimum, maximum, increasing, decreasing.

Use interval notation when necessary. Try making a different representation of the equation if you are getting stuck.

f(x) = 4x - 2		
Domain	Range	Minimum
$(-\infty,\infty)$	$(-\infty,\infty)$	None
Maximum	Increasing	Decreasing
INDINE	$(-\infty,\infty)$	Never

X19(X)

× 19/x) -3 64 -1 16

./	
,	R
	<b>\</b>
m	
	1
	1

 $g(x)=8(0.5)^{x}$ 

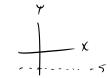
Domain $(-\infty, \infty)$	Range $(O_{j} \sim)$	Minimum NONL
Maximum NDVQ	Increasing No	Decreasing $\left(-\infty,\infty\right)$





 $h(x) = 3x^2$ 

Domain $(-\infty, \infty)$	Range $[O, \infty)$	Minimum O
Maximum	Increasing $(0, \infty)$	Decreasing $(-\infty, 0)$



i(x) = -5

Domain $(-\infty, \infty)$	Range	Minimum - 5
Maximum - 5	Increasing WWY	Decreasing WVCT