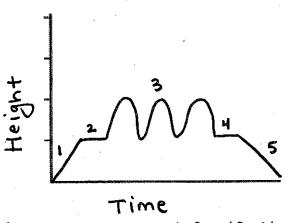
Functions Test Review

Sketch a graph of the situation below and label each axis appropriately. Provide a written scenario that explains what your sketch is modeling.

Your height above the ground as you mount, jump on, and dismount a trampoline.



EXPLANATION 1) You get on the tramp from tre ground so your height increases.

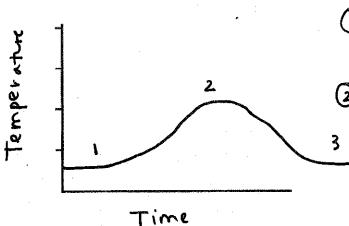
② You wait for a minute before you jump.

③ Jumping 3 times

④ Catching your breath

⑥ Getting off the trump.

2. The average temperature in Grand Rapids over the course of a year beginning in January and ending in December



EXPLANATION

(i) Jan./ Feb. He ayg. temp. remains below

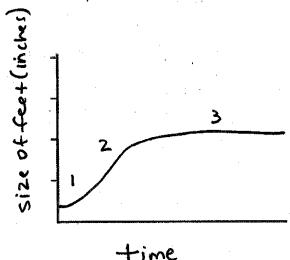
Freezing

(2) Temps peake in the

Summer. (The -> Avg.)

3) Temps return back to freezing by December.

3. The size of your feet from birth to adulthood.

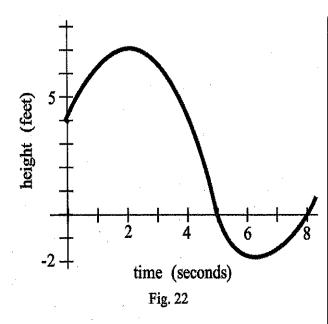


EXPLANATION

1) when you are born, your feet are around 2 inches.

1 From birth to adulthood, feet you rapidly

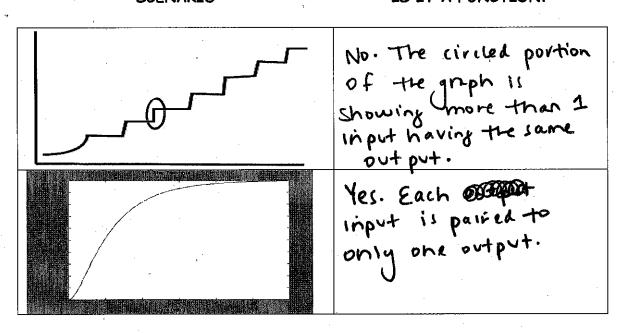
(3) Feet remain the same size through adult hood. 4. Use the graph below to answer the following questions.



- (a) What was the height of the diving board? WHY?
- 4 Feet. At time 0, the diver jumped off the board which occured at a height of (b) When did the diver hit the 4. water? WHY?
- 5 seconds. At this time the height of the diver is 0.
- (c) How deep did the diver get? WHY?
- 2 feet below the water Since the lowest beight is -2.
- (d) When did the diver return to the surface? WHY?
- 8 seconds, because here the diversibeight was back at zero.
- 5. Are the following scenarios representing function? Make sure you provide an explanation for your reasoning.

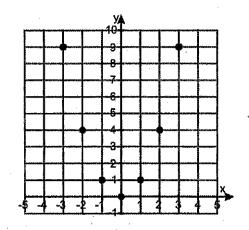
SCENARIO

IS IT A FUNCTION?



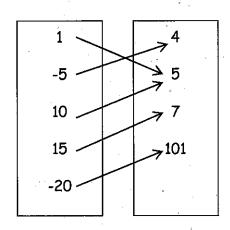
		5	
	× 9 15 21 22	y -2 -1 5	Yes. Each value in the domain is paired to only one range value.
IN	IPUT	OUTPUT 2 1 2 4	No, the in put o is paired to two outputs (-2 and 1)
{(6,	3), (7, -2)	, (-1, 4), (6, 8)}	No, the X-coordinate 4 is paired with 2 different y-coordinate (3 and 8)

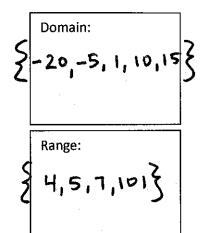
6. List the domain and the range of the following relation:



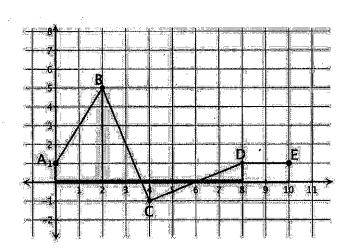
[i	Domain:	
-	3,-2,-1,0,1,2,3	1
ı		ı

Range: 0,1,4,93 7. List the domain and range of the following relation:





8. Describe the domain and range of the following relation:

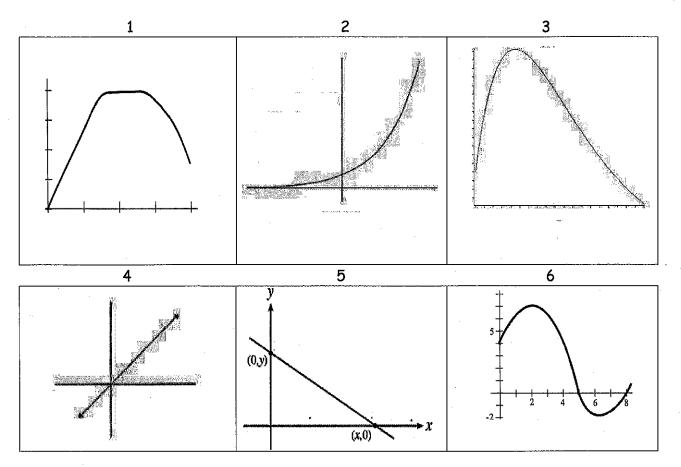


between O and 10.

Range: all the y-coordinates between 1 and 5.

9. List the domain and the range of the following relation:

10. Match 3 of the following 6 graphs with their correct scenario below. For the remaining 3 graphs, describe a situation that might model the graph.



	Scenario	Number match	Explanation			
Your height above ground on a rollercoaster.		3	at the 1st big hill your increased fast and gets 1	ower atter		
The distance John is from home when he went for a run, bumped into a friend, stopped to chat, then started running back toward home.		1	manuay from homes manual from homes who were as John	the loaster goes over		
The height of a diver above the water level at time t seconds.		6	height increases goes below the surface as the	goed back home ter and		
Graph Num.	Scenario Description return back					
2	The population of mile when no predators are around.					
4	having a bank account when the same amount Of money is deposited each week.					
5	Jogging from the sto					