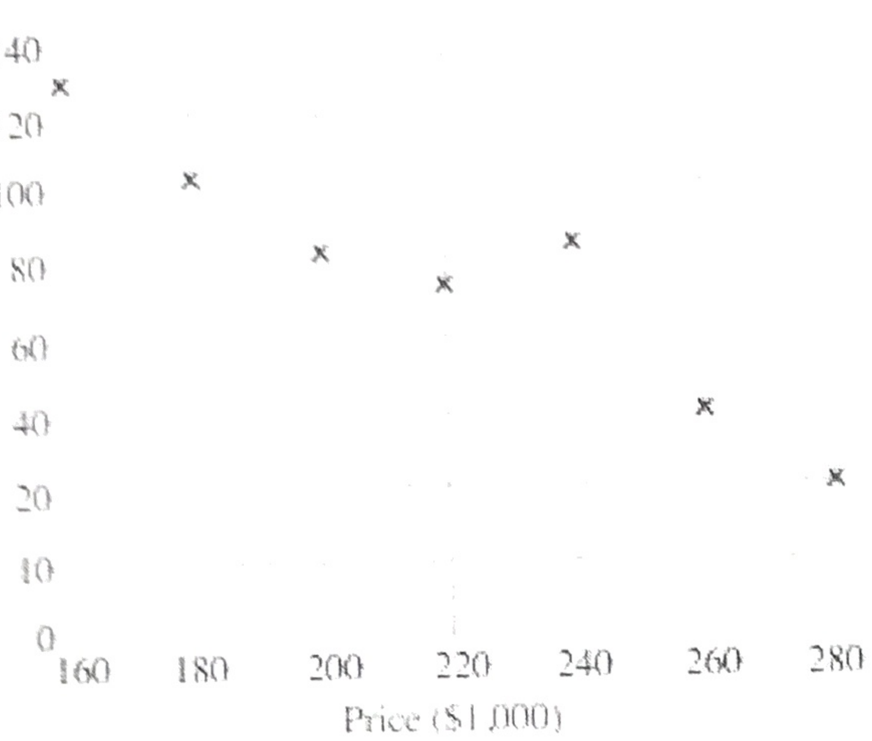
Name: _____ **Date:** _____ **HW # 19 Functions**

Decide if each graph or table represents a function or simply a relation. (Remember, all functions ARE relations.)

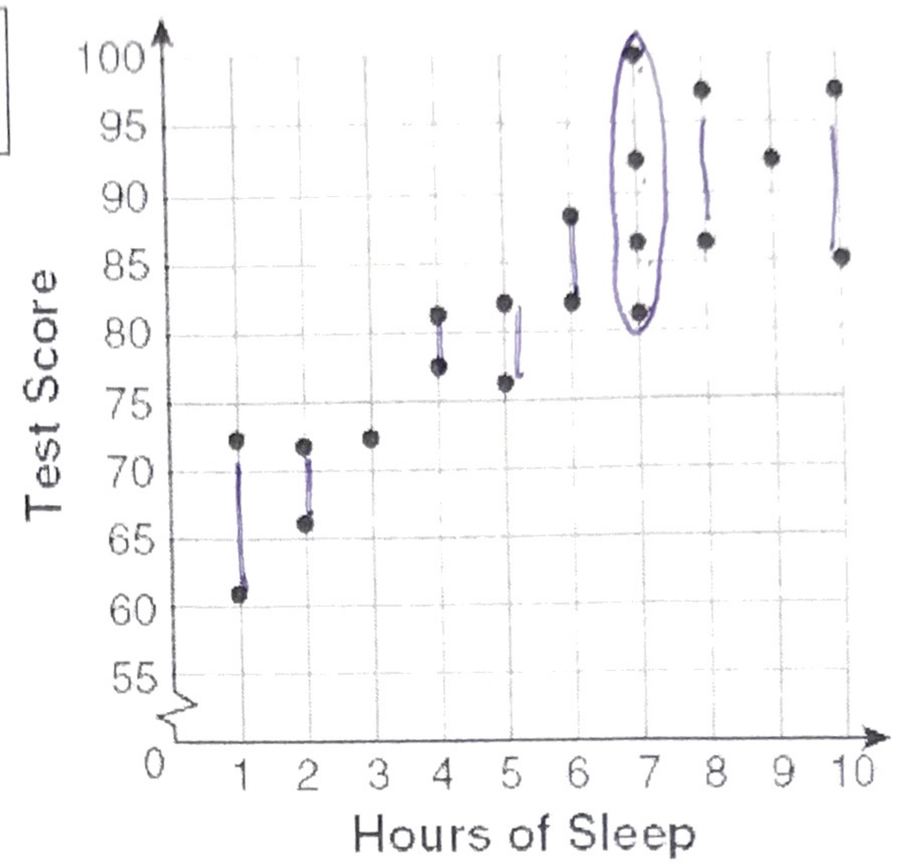
Explain your choice.

1.



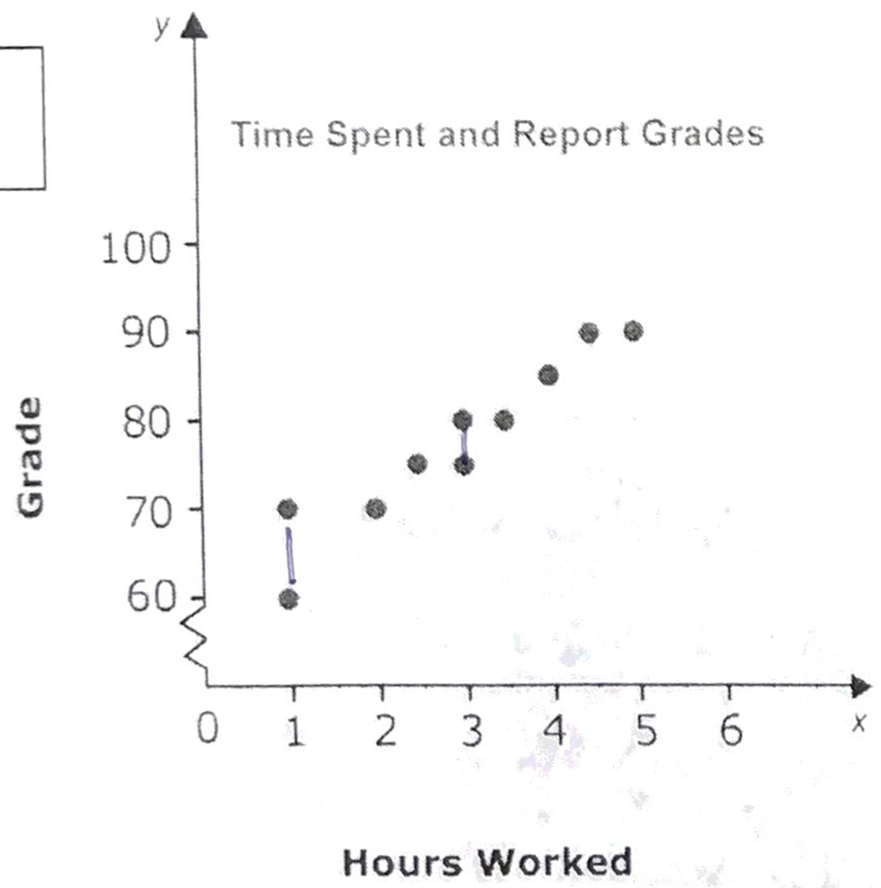
Function b/c each indep. value has 1 dep value

2.



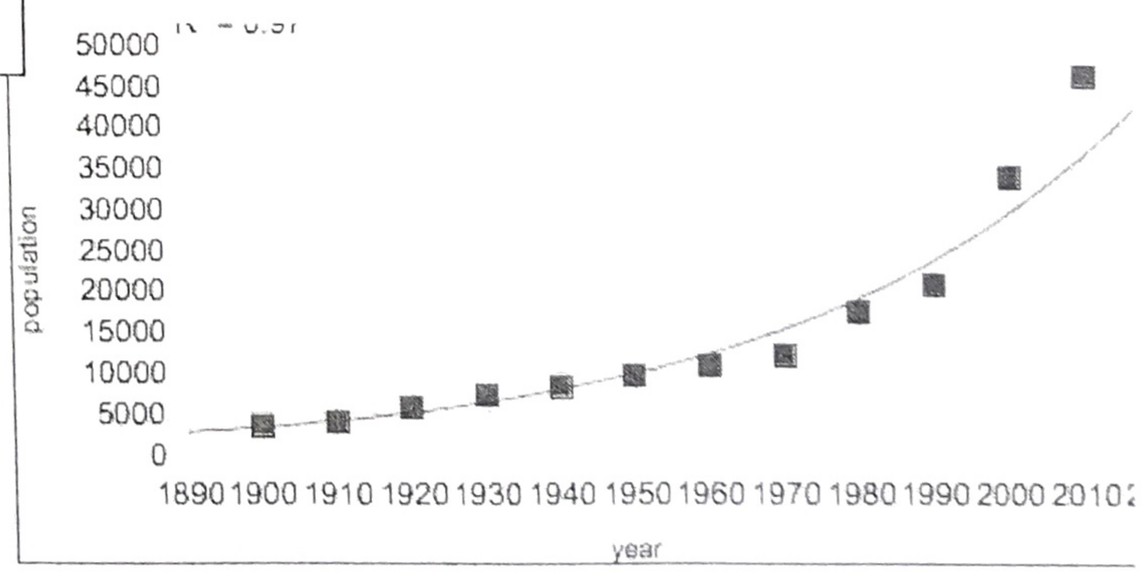
Not a Function, just a relation b/c multiple indep. values have more than 1 dep. value

3.



Not a function, just a relation b/c the Ind. value 1 & 3 have more than 1 dep. value

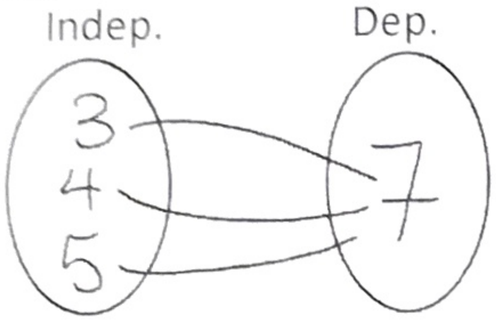
4.



Function b/c each indep. value has 1 dep. value

More on the back.

5.



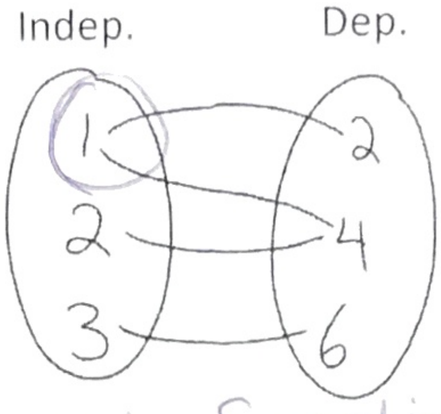
Function b/c each indep. value has 1 dep. value

6.

X	Y
-2	12
-2	4
0	3
1	4
1	19

Not a function, just a relation b/c the indep. value -2 & 1 have more than 1 dep. value.

7.



Not a function, just a relation b/c the ind. value 1 has more than 1 dep. value

8.

X	Y
-3	12
-1	4
1	3
3	4
5	19

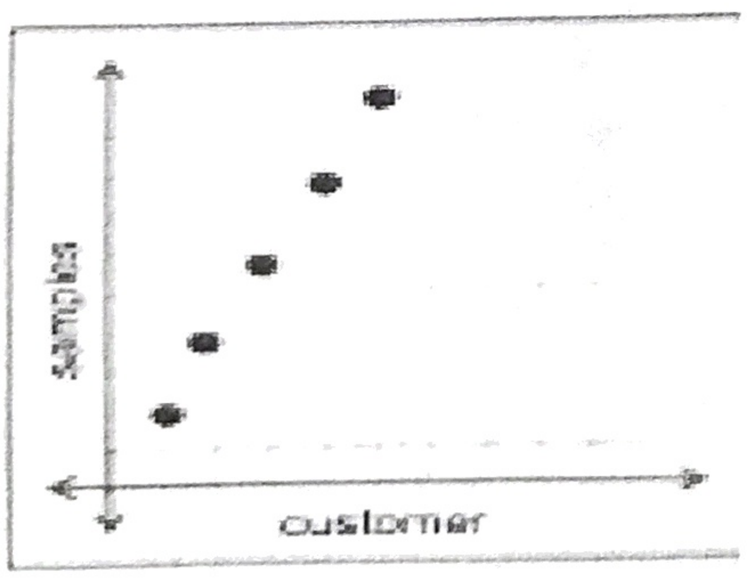
Function b/c each indep. value has 1 dep. value

9. Marlee was given the following table and asked if it represented a function. She said *"No, it is not a function because the y is always 7."* Explain Marlee's error(s) in reasoning.

X	Y
-2	7
-1	7
0	7
1	7
2	7

Marlee had to decide if a table was a function. She said no b/c the y stays 7. She is supposed to look at the indep. values. The indep. values are all different so this is a function.

10. Jake was given the graph below and asked if it represented a relation, a function, or both a relation and function. He answered "*It is a function because each x only has one y.*" Explain Jake's error(s) in reasoning."



Jake had to decide if a graph is a function, relation, or both. He chose function. While it is a function, he forgot all functions are relations so he should have chosen "both."