

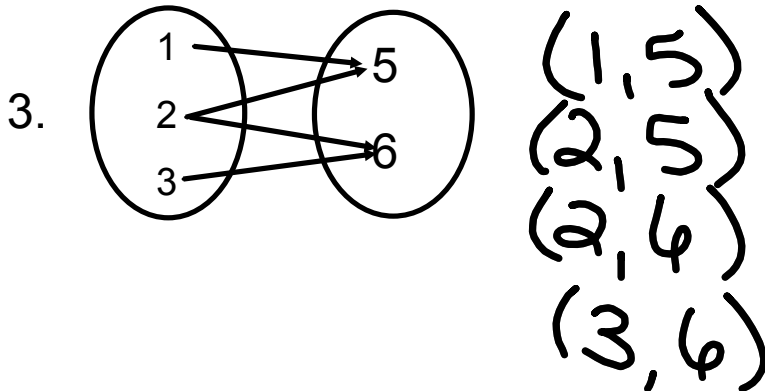
Are the following functions?

Explain why/why not

1. $(1,2) (3, -7) (4, -7) (5,8)$

2.

x	-3	0	1	1	4	5
y	6	9	3	7	-2	10



8. No, the input of 3 has four outputs

9. Yes, every input has it's own output

10. Yes, every input has it's own output

11. No, the input of 1 and 4 have two outputs

12. No

13. No

14. Yes

15. Yes

24. No, the input of 3 has two outputs

25. Yes, Yes, every input has it's own output

Independent and Dependent Variables

Independent and Dependent Variables

A variable whose value depends on another variable is a **DEPENDENT** variable. A variable that does not depend on other variable is called **INDEPENDENT**.

Circle the statement below that is correct.

How far I can drive depends on the amount of fuel left in my car's tank.

The amount of fuel left in my car's tank depends on how far I can drive.

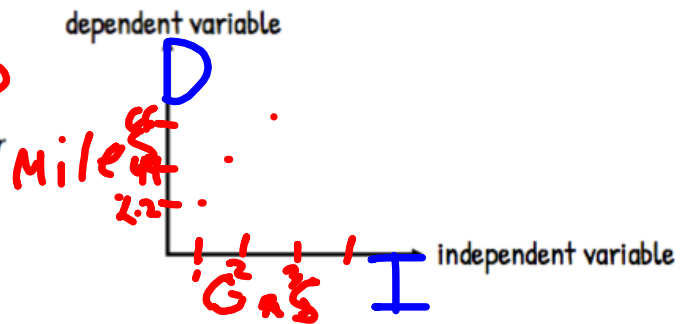
Given that the dependent variable depends on the independent variable, identify the dependent and independent variables in this situation.

Dependent Variable: miles

Independent Variable: gas

The independent variable is always graphed on the x-axis, and the dependent variable is always graphed on the y-axis.

Sketch a graph below that represents the situation. Be sure to label the axes.



Original Statement	"Depends" Statement	Variables		Sketch a Graph
<p>Oil and natural gas is a major part of Oklahoma's economy. Oil and natural gas producers tend to pump more when oil and natural gas prices are higher and less when prices are lower.</p>	<p>oil & gas production depends on price of oil & gas</p>	<p>Dependent Variable Production O</p>	<p>Independent Variable Price P</p>	
<p>Drumright's Senior Class is planning an overnight trip to Six Flags which will require a hotel stay. The more students who go on the trip, the more hotel rooms they will need.</p>	<p>Amt of hotel rooms depends on # students</p>	<p>Dependent Variable Rooms r</p>	<p>Independent Variable students S</p>	
<p>On a road trip to Disney World, Billy asks, "Are we there yet?" His father answers, "The amount of time we have left to travel is based on the amount of time we have already traveled."</p>		<p>Dependent Variable Distance D</p>	<p>Independent Variable Time T</p>	

