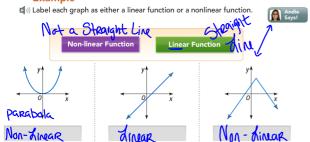
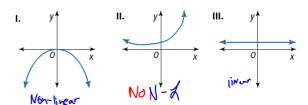
7.4 Notes.notebook May 05, 2014

Example



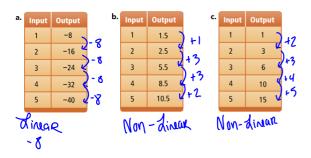
Got It?

Which graph(s) represent a nonlinear function? Explain.



Example

Circle the tables that represent nonlinear functions. Explain your reasoning.



Got It?

Does the table represent a linear or a nonlinear function? Explain.

Input	Output	Non linear, the output's
1	5 🔍	to change is not constant
2	6	1.2
3	9 4	*7
4	14	/+5
5	21)+ +

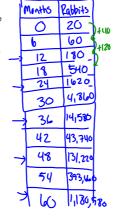
Example

Suppose there are 20 rabbits on an island and that the rabbit population can triple every six months.

- a. Make a table of values to find how many rabbits there would be after 2 years.
- b. Does this relationship represent a nonlinear function?

 Explain. Non-Linear
- **c.** Using the table, when would you expect the rabbit population to reach 1,000,000 rabbits?





Got It?

The table shows the population of a species of brown bat in Missouri.

a. Is this relationship linear or nonlinear? Explain.

non-Linar

b. Why can't you use this table to predict the bat population in 2011?

Not a constant rate of change



Brown Bat Population

Year	Population
1999	19,900
2001	13,000
2003	14,100
2005	9,900
2007	8,600