

1. Tell whether each table represents linear, quadratic, exponential, or inverse variation. Justify your reasoning. Then make a graph for each.

a.

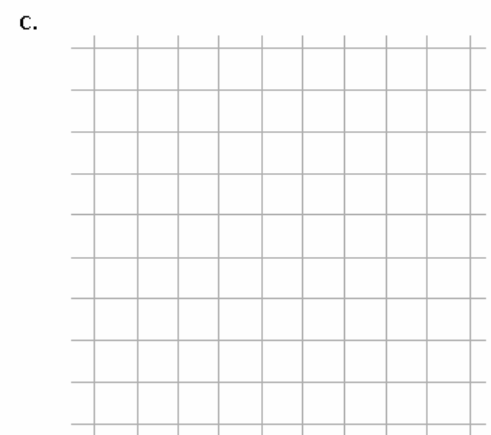
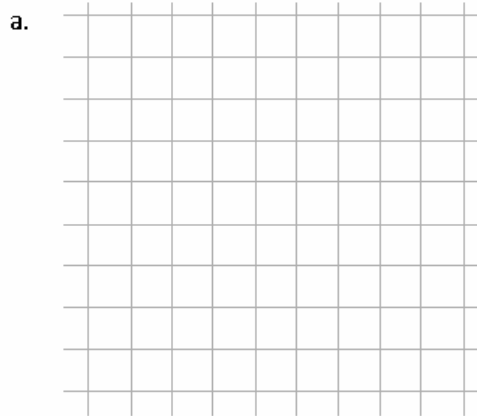
x	y
1	-3
2	0
3	5
4	12

b.

x	y
1	10
2	14
3	18
4	22

c.

x	y
1	4
2	8
3	16
4	32



d.

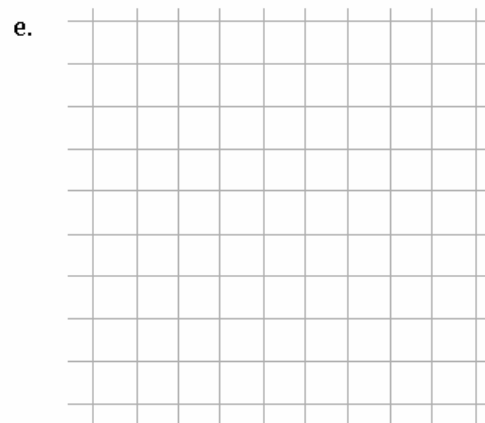
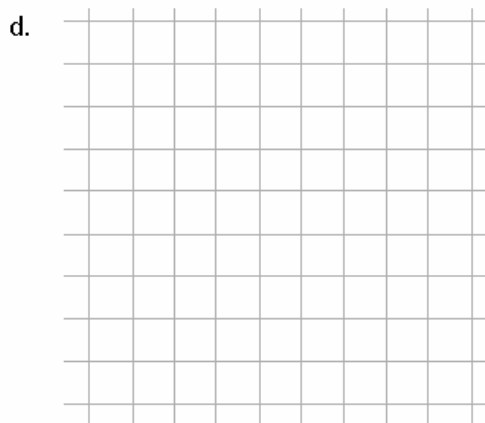
x	y
1	12
3	4
4	3
6	2

e.

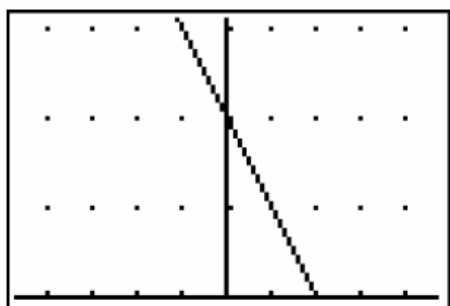
x	y
1	2
3	10
4	17
6	37

f.

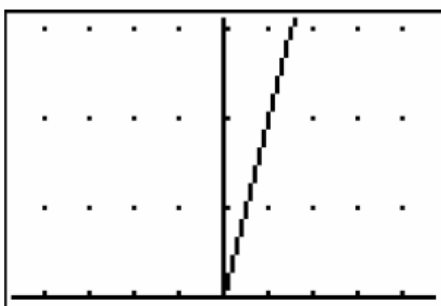
x	y
1	18
3	14
4	12
6	8



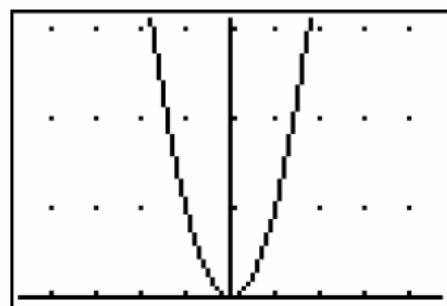
2. You have learned some characteristics of the graphs of different families of functions. Label each graph as one of the following, and then explain how you identified it.
- Proportional relationship
 - Nonproportional linear relationship
 - Nonconstant rate of change: quadratic
 - Nonconstant rate of change: exponential
 - None of the above



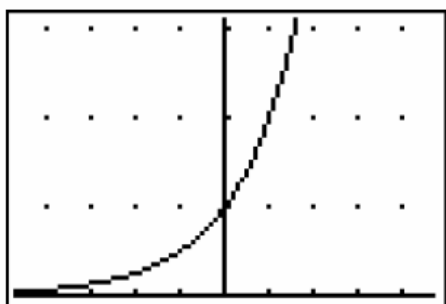
a. _____



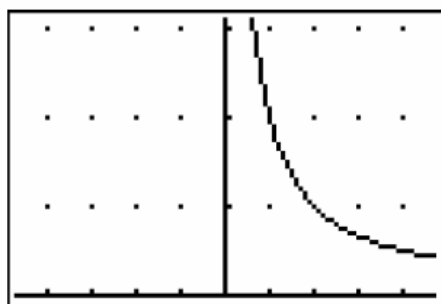
b. _____



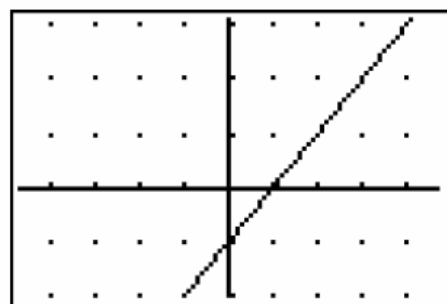
c. _____



d. _____



e. _____



f. _____

3. Indicate whether you agree or disagree with each statement. Circle the appropriate word. Then explain your decision.

a. A graph allows you to identify quickly whether a function is linear or nonlinear. Agree / Disagree

Explanation:

b. A graph allows you to distinguish easily between a quadratic or exponential pattern. Agree / Disagree

Explanation: