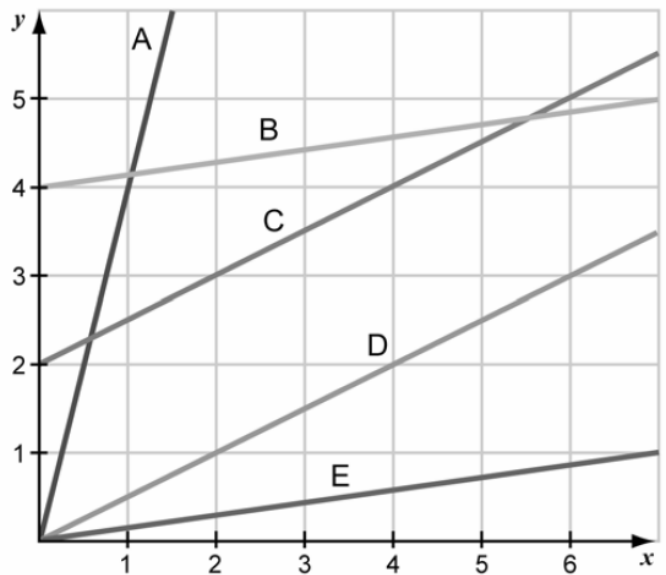


1. What are important graphical features of proportional relationships?
Circle all correct statements:

- a. The graph is a straight line.
- b. The line has a y -intercept of 0.
- c. The line passes through the origin.
- d. The line has an x -intercept of 0.
- e. The line passes through the point $(0,0)$.

Use the graph to answer questions 2–5.

2. Which lines represent proportional relationships?
Explain how you know.



3. Find the rate of change for each line.

A:

B:

C:

D:

E:

- 4. Find the constant of proportionality for each proportional relationship.
- 5. Write a function rule for each proportional relationship.

6. (a) Identify whether the relationship represents direct variation. If it does, write the constant of proportionality. (b) Write the rule.

a.

X	Y
2	16
3	24
5	40

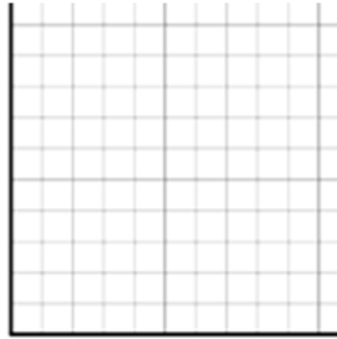
b.

X	Y
-3	6
0	0
7	-14
-2.5	5

c.

X	Y
0	5
2	15
4	25
6	35

7. Gloria charges \$5 for every hour she babysits. Graph five data points that represent the situation.



Does Gloria's situation represent direct variation? If so, what is the constant of proportionality?

Write a rule that can be used to represent Gloria's situation.

8. Create a table that represents a proportional relationship.

9. Sketch a graph that represents a proportional relationship.

10. Write 3 rules that represent 3 different proportional relationships.