

Name _____

Date _____

1. Use the coordinate plane to complete the following tasks.

- a. Line p represents the rule x and y are equal.
- b. Construct a line, d , that is parallel to line p and contains point D .
- c. Name 3 coordinates pairs on line d .

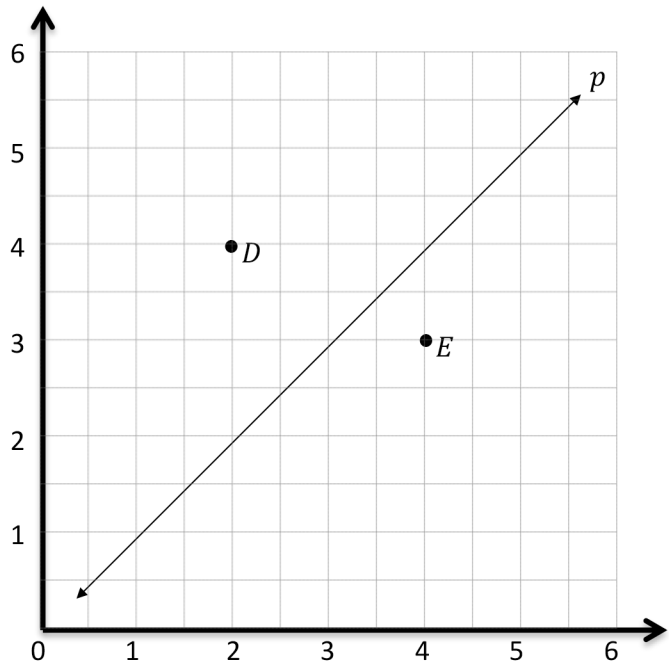
d. Identify a rule to describe line d .

e. Construct a line, e , that is parallel to line p and contains point E .

f. Name 3 points on line e .

g. Identify a rule to describe line e .

h. Compare and contrast lines d and e in terms of their relationship to line p .



2. Write a rule for a fourth line that would be parallel to those above and that would contain the point $(5\frac{1}{2}, 2)$. Explain how you know.

3. Use the coordinate plane below to complete the following tasks.

a. Line p represents the rule *x and y are equal*.

b. Construct a line, v , that contains the origin and point V .

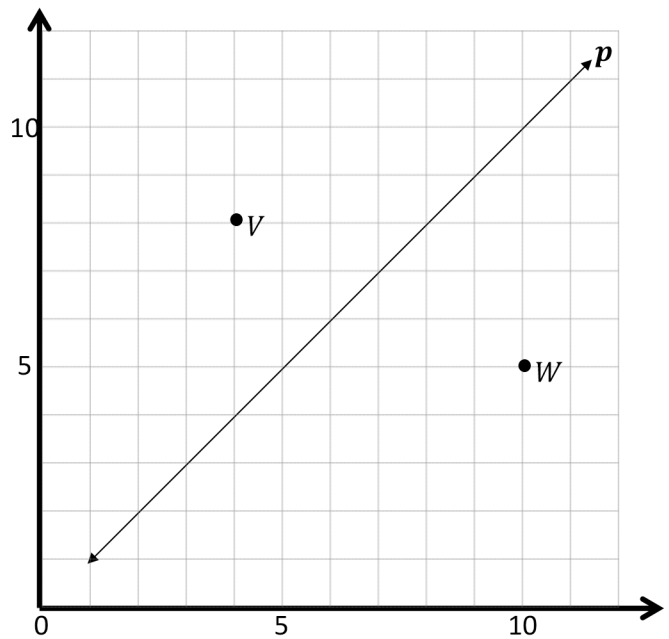
c. Name 3 points on line v .

d. Identify a rule to describe line v .

e. Construct a line, w , that contains the origin and point W .

f. Name 3 points on line w .

g. Identify a rule to describe line w .



h. Compare and contrast lines v and w in terms of their relationship to line p .

i. What patterns do you see in lines that are generated by multiplication rules?

Answer Key

1.
 - a. Answer provided.
 - b. Accurate line drawn.
 - c. Answers will vary.
 - d. Answers will vary.
 - e. Accurate line drawn.
 - f. Answers will vary.
 - g. Answers will vary.
 - h. Answers will vary.
2. Answers will vary.
3.
 - a. Use $y = x$
 - b. Accurate line drawn.
 - c. Answers will vary.
 - d. Answers will vary (e.g., y is x doubled).
 - e. Accurate line drawn.
 - f. Answers will vary.
 - g. Answers will vary (e.g., y is half of x).
 - h. Answers will vary.
 - i. Answers will vary.