Date

1. Write a rule for the line that contains the points $(0, \frac{1}{4})$ and $(2\frac{1}{2}, 2\frac{3}{4})$. Using the points $(0, \frac{1}{4})$ and $(2\frac{1}{2}, 2\frac{3}{4})$.

a. Identify 2 more points on this line. Draw the line on the grid below.

2

Point	x	у	(x, y)
В	4	44	(4,44)
С	3 2	4	(34,4)

b. Write a rule for a line that is parallel to \overrightarrow{BC} and goes through point $(1, 2\frac{1}{4})$.

y is
$$14$$
 more than χ .

2. Give the rule for the line that contains the points $(1, 2\frac{1}{2})$ and $(2\frac{1}{2}, 2\frac{1}{2})$.



a. Identify 2 more points on this line. Draw the line on the grid above.

Point x y (x, y)						1
	(x, y)		у	x	Point	
G 32 22 (32,2)	31,21	(21/2	3늘	G	
H 44 21 (44,2	44,25	(21/2	44	Н	

- b. Write a rule for a line that is parallel to \overrightarrow{GH} .



y is always 1.



2

- 3. Give the rule for a line that contains the point $(\frac{3}{4}, 1\frac{1}{2})$, using the operation or description below. Then, name 2 other points that would fall on each line.

Point	х	у	(x, y)
T	2	23	$(2,2\frac{3}{4})$
U	34	4	(34,4)

a. Addition: $y = x + \frac{3}{4}$ b. A line parallel to the x-axis: y is always z

Point	х	у	(x, y)
G	Q	12	(2,1岁)
Н	4	乜	(4,1岁)

Point	x	у	(x, y)
A	1	2	(1,2)
В	3	6	(3,6)

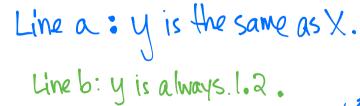
c. Multiplication: $\underline{y} = X + \frac{1}{1}$ d. A line parallel to the y-axis: \underline{X} is always $\frac{3}{4}$

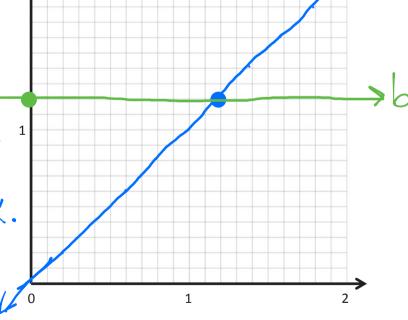
Point	x	у	(x, y)
V	3 4	2	(3,2)
W	3 4	5	(3,5)

e. Multiplication with addition: X + i mes and $\frac{3}{4}$.

Point	х	у	(x, y)
R	2	23	$(2,2\frac{3}{4})$
S	34	4	(34,4)

- 4. On the grid, two lines intersect at (1.2, 1.2). If line α passes through the origin, and line & contains the point (1.2, 0), write a rule for line a and line b.





Lesson 12:

Create a rule to generate a number pattern, and plot the points.