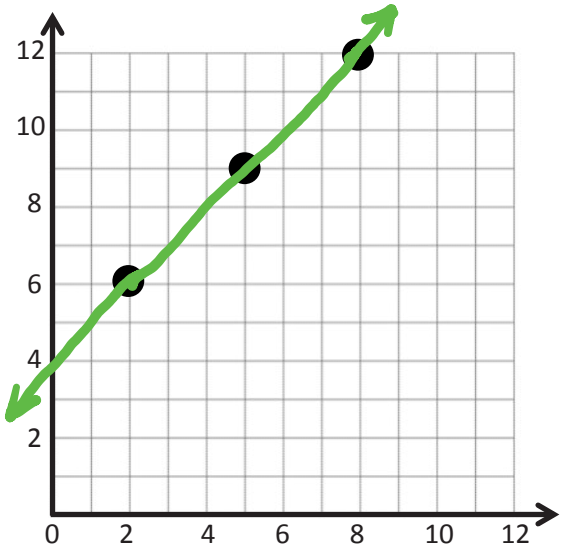
Name _____ Date _____

1. Complete this table such that each y-coordinate is 4 more than the corresponding x-coordinate.

x	y	(x, y)
2	6	(2, 6)
5	9	(5, 9)
8	12	(8, 12)



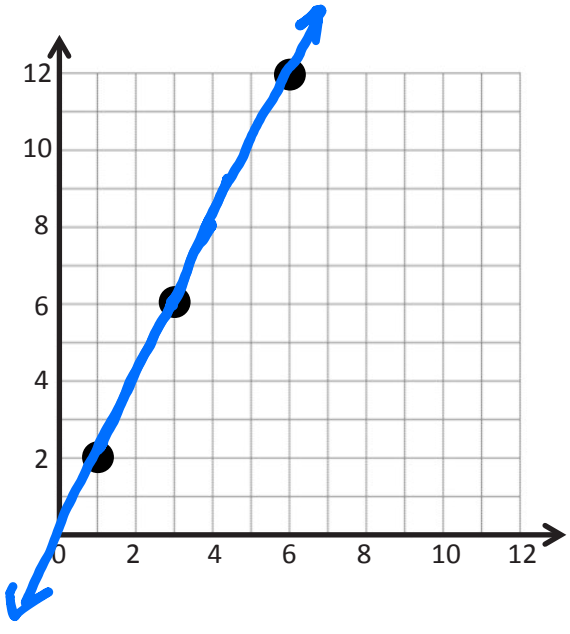
a. Plot each point on the coordinate plane.

b. Use a straightedge to construct a line connecting these points.

c. Give the coordinates of 2 other points that fall on this line with x-coordinates greater than 18.
(20, 24) and (34, 38)

2. Complete this table such that each y-coordinate is 2 times as much as its corresponding x-coordinate.

x	y	(x, y)
1	2	(1, 2)
3	6	(3, 6)
6	12	(6, 12)



a. Plot each point on the coordinate plane.

b. Use a straightedge to draw a line connecting these points.

c. Give the coordinates of 2 other points that fall on this line with y-coordinates greater than 25.
(13, 26) and (41, 82)

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

a. Graph these lines on the plane.

line ℓ: x is equal to y

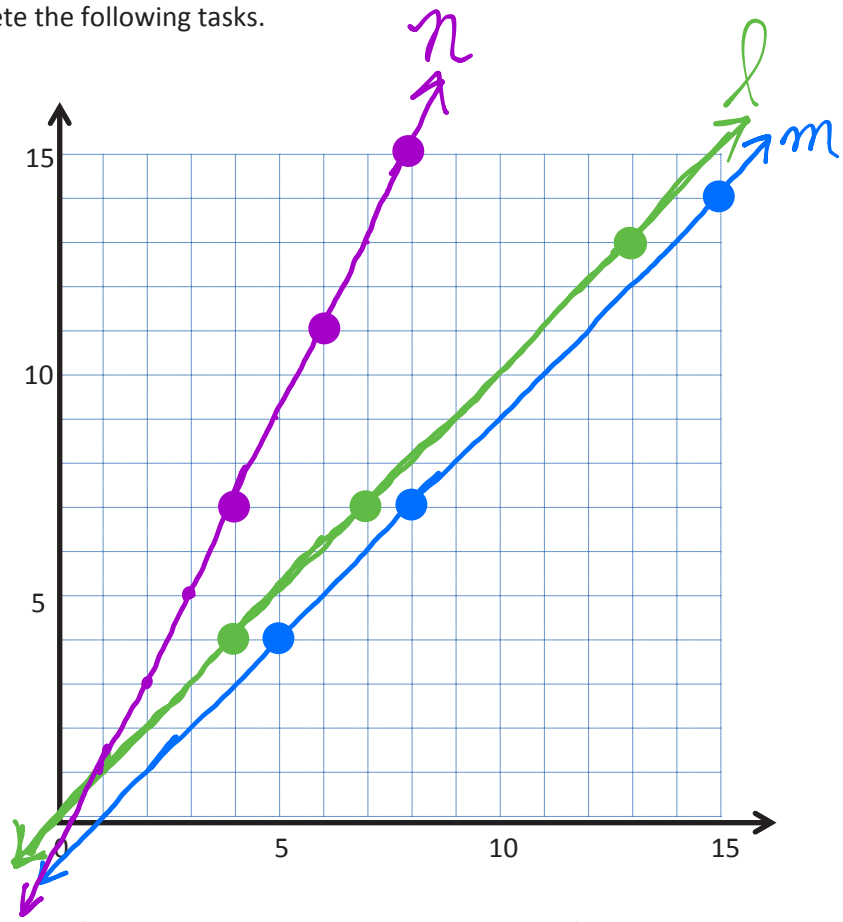
	x	y	(x, y)
A	4	4	(4,4)
B	7	7	(7,7)
C	13	13	(13,13)

line m: y is 1 less than x

	x	y	(x, y)
G	5	4	(5,4)
H	8	7	(8,7)
I	15	14	(15,14)

line n: y is 1 less than twice x

	x	y	(x, y)
S	4	7	(4,7)
T	8	15	(8,15)
U	6	11	(6,11)



b. Do any of these lines intersect? If yes, identify which ones, and give the coordinates of their intersection.

Line n intersects with Line ℓ at (1,1).

Line n would eventually intersect with Line m.

c. Are any of these lines parallel? If yes, identify which ones.

Lines ℓ and m are parallel.

d. Give the rule for another line that would be parallel to the lines you listed in (c).

(Answers will vary.)

y is 3 more than x.