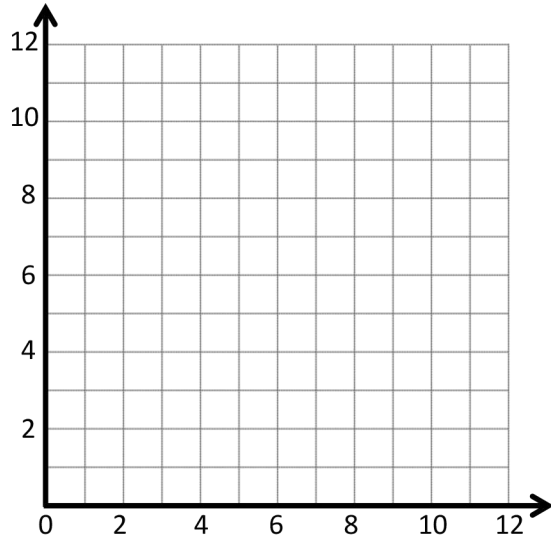Name _____   Date _____

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

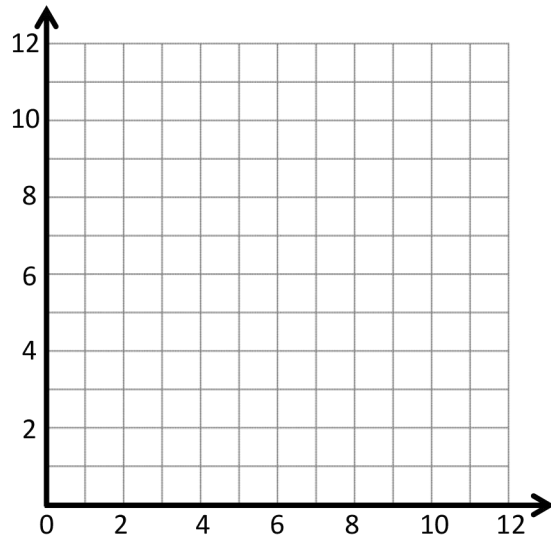| x	y	(x, y)

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.

   (_____ , _____) and (_____ , _____).

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

x	y	(x, y)

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.

   (_____ , _____) and (_____ , _____).

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
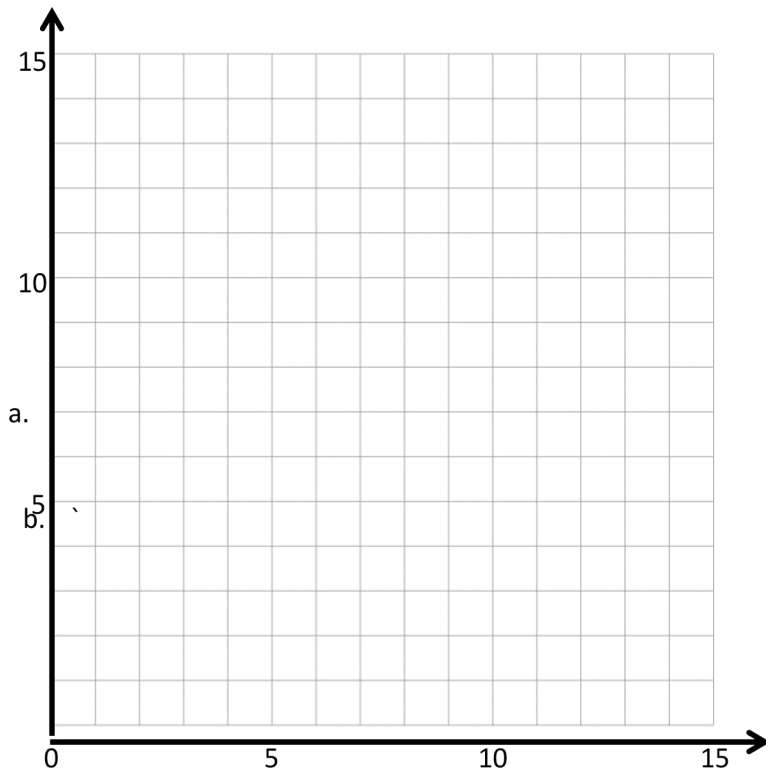
	x	y	(x, y)
A			
B			
C			

   line m: y is 1 less than x

	x	y	(x, y)
G			
H			
I			

   line n: y is 1 less than twice x

	x	y	(x, y)
S			
T			
U			

   a.

   b.

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

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

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

Answer Key

1. Answers will vary.

    a. Points accurately plotted

    b. Accurate line drawn

    c. Answers will vary.

2. Answers will vary.

    a. Points accurately plotted.

    b. Accurate line drawn

    c. Answers will vary.

3. Coordinates will vary.

    a. Accurate lines drawn

    b. Lines n and ℓ; (1, 1)

    c. Lines ℓ and m

    d. Answers will vary.