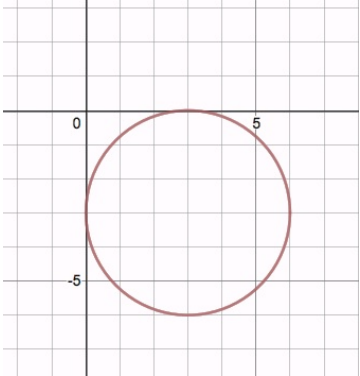


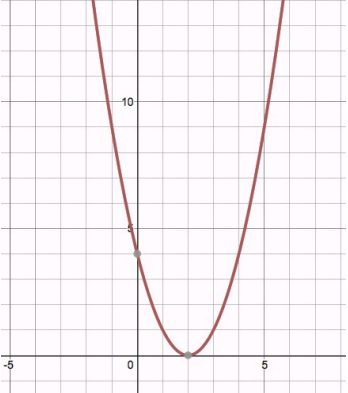
Relations, Functions, Domain, Range and Linear Function (B)
In-Class Assignment

1. Using the set notation, describe the domain and range of each relation. Determine whether the given relation is a function. If the relation has x-intercept(s) and y-intercept(s), give their exact coordinates.

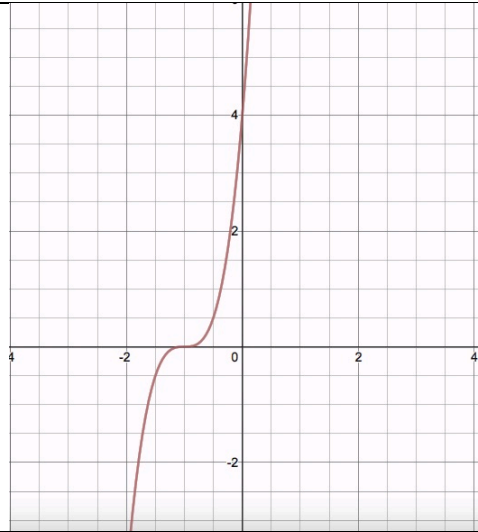
a)

	Domain	
	Range	
	Is the given relation a function?	
	x-intercept(s)	
	y-intercept(s)	

b)

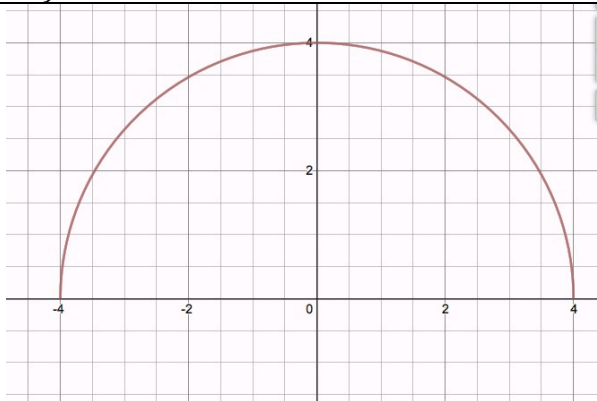
	Domain	
	Range	
	Is the given relation a function?	
	x-intercept(s)	
	y-intercept(s)	

c)



Domain	
Range	
Is the given relation a function?	
x-intercept(s)	
y-intercept(s)	

d)



Domain	
Range	
Is the given relation a function?	
x-intercept(s)	
y-intercept(s)	

2. Determine whether the given equation is in:

- A) slope-intercept form
- B) general form
- C) standard form
- D) slope-point form
- E) neither

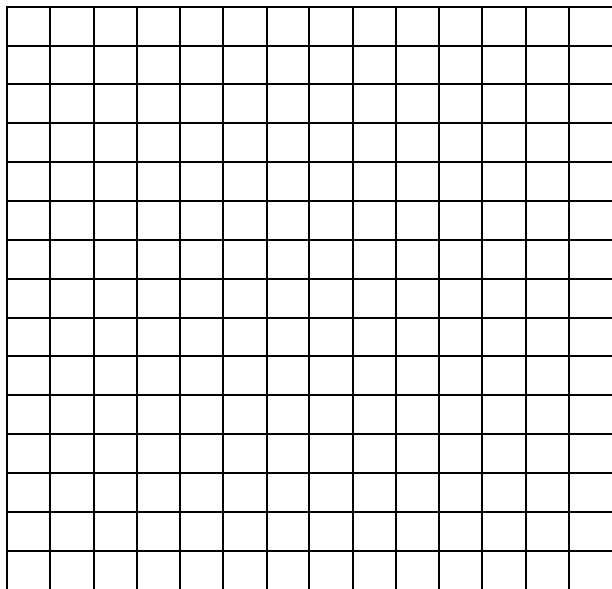
	Equation	Form		Equation	Form
1	$y = 3x + 1$		6	$y - 3 = 0.25(x + 8)$	
2	$-2x + 5y = 10$		7	$y + 3x - 6 = 0$	
3	$5x - y = -8$		8	$x + 2 = -4(y - 12)$	
4	$y = x + 1$		9	$y + 10 = -5x$	
5	$0.5x - 2y - 8 = 0$		10	$9x + 4y - 20 = 0$	

3. Rewrite every equation in question 2 in slope-intercept form if it is not already given in that form. Attach a sheet of paper that shows your algebra.

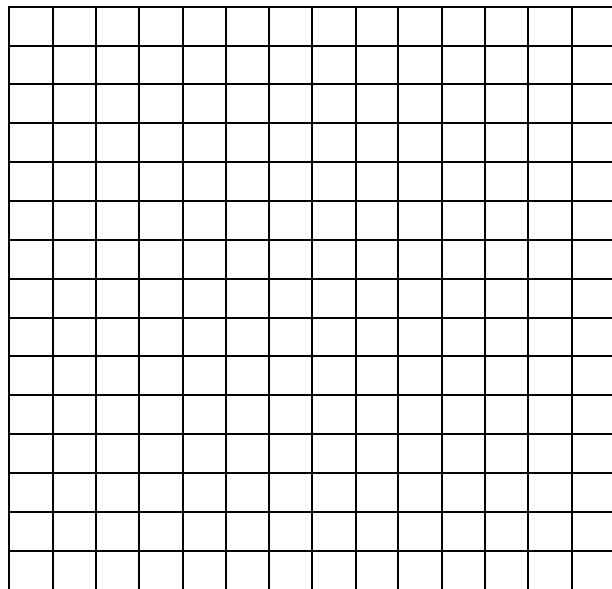
	Equation	Slope-Intercept Form		Equation	Slop-Intercept Form
1	$y = 3x + 1$		6	$y - 3 = 0.25(x + 8)$	
2	$-2x + 5y = 10$		7	$y + 3x - 6 = 0$	
3	$5x - y = -8$		8	$x + 2 = -4(y - 12)$	
4	$y = x + 1$		9	$y + 10 = -5x$	
5	$0.5x - 2y - 8 = 0$		10	$9x + 4y - 20 = 0$	

4. Sketch a graph of each line.

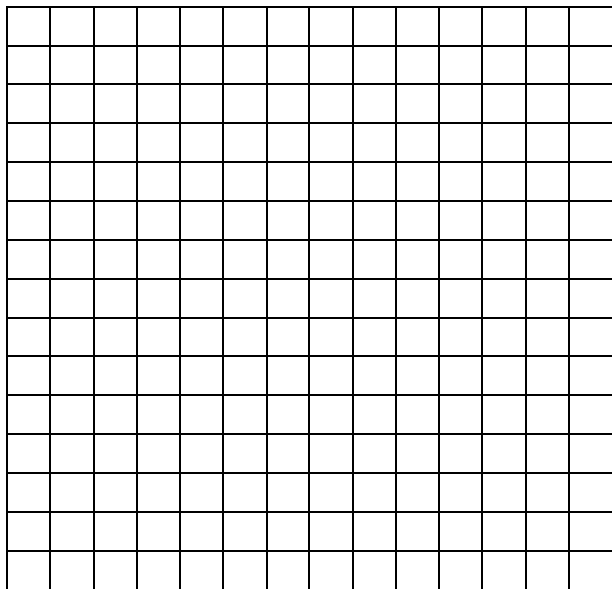
1.



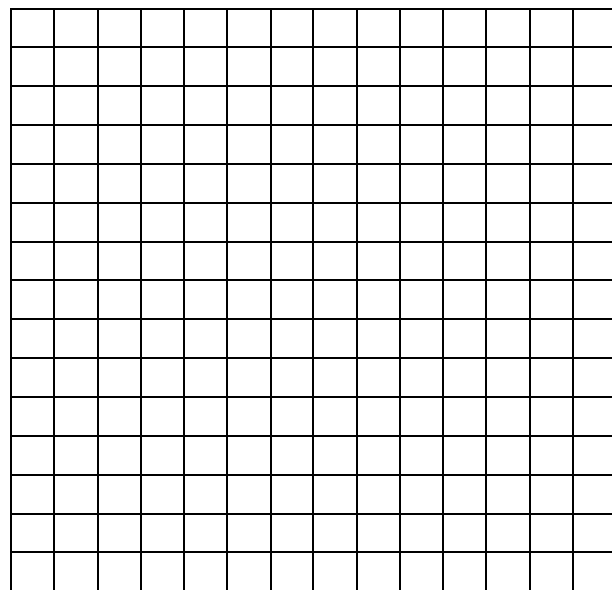
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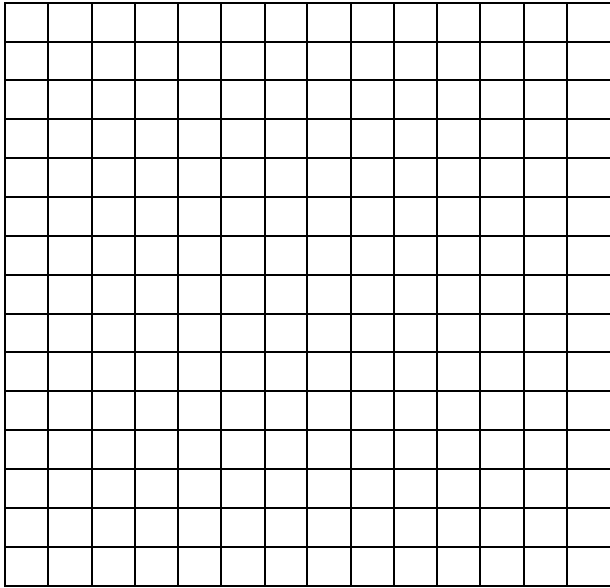
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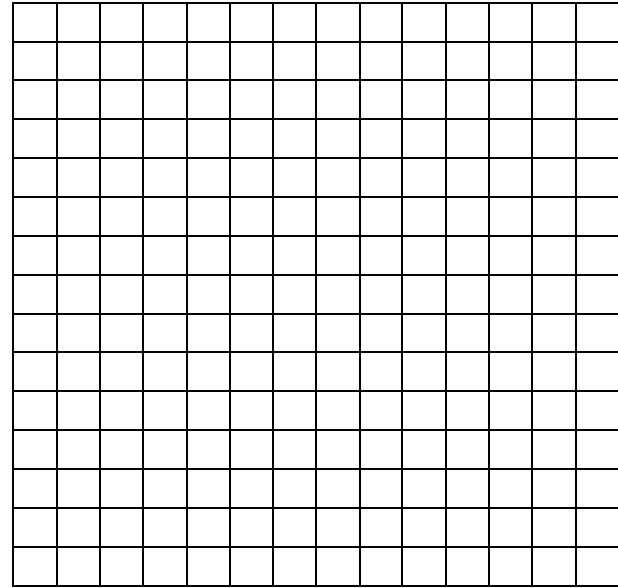
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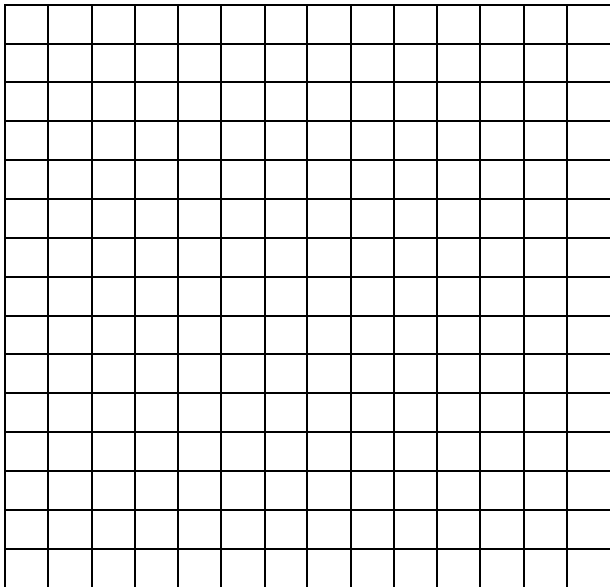
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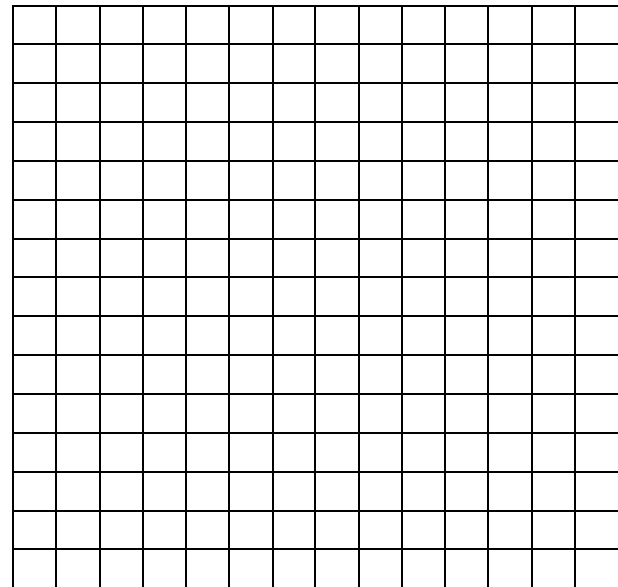
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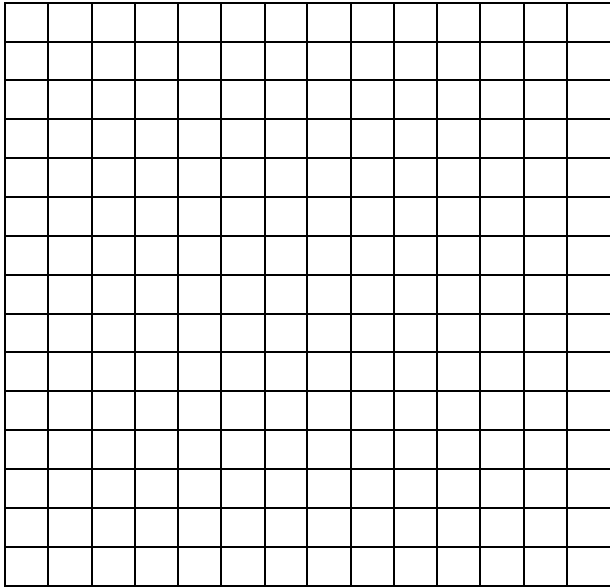
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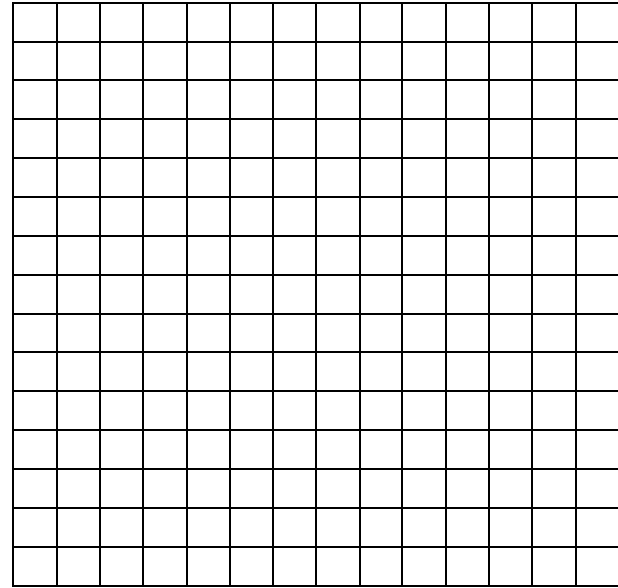
8.



9.



10.



6.