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BA; Algebra 1	

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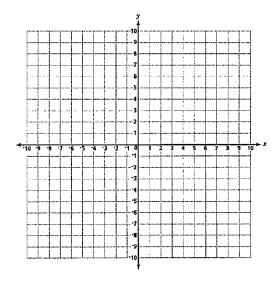
Review for Graphing Test

1) What is the slope of the graph y = -2x + 5?	3x - 2y = 12.
2) White an acception of the line whose slave is 1	4) White an equation that is namellal to the line
3) Write an equation of the line whose slope is -1 and whose y-intercept is 7.	4) Write an equation that is parallel to the line $y = \frac{3}{5}x + 7$.
5) Write an equation that is perpendicular to the line $y = \frac{3}{5}x + 7$.	6) What is the slope of the line that passes through the points (4,5) and (6,1)?
7) If the point (d,3) lies on the graph of 3x - y = 9, find the value of d.	8) Which point does <i>not</i> lie on the graph of 3x - y = 9? (a) (1,-6) (b) (2,3) (c) (3,0) (d) (0,-9)
9) Which ordered pair is in the solution set of y < 2x - 4?	10) Which equation has a graph parallel to the graph of y = 5x - 2?
(a) (0,-5) (b) (2,0) (c) (3,3) (d) (0,2)	(a) y = -5x (b) y = 5x + 3 (c) y = -2x (d) y = 2x - 5

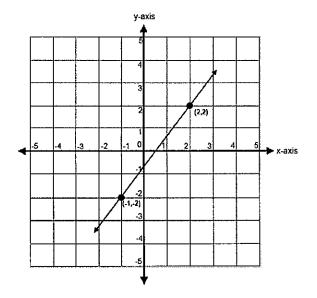
11) The graph of 2x + y = 8 intersect the y-axis at:	12) What is the slope of the graph of the equation
() (0 0)	y = 4?
(a) (0,8)	
(b) (8,0)	(a) 1
(c) (0,4)	(b) 0
(d) (4,0)	(c) -4
	(d) 4
13) In which ordered pair is the abscissa 3 more	14) What is the slope of the line whose equation is
than the ordinate?	3x - 4y - 16 = 0?
(a) (1,4)	$(a) \frac{3}{2}$
(b) (1,3)	(a) 4
(c) (3,1)	(b) ⁴
(d) (4,1)	(a) $\frac{3}{4}$ (b) $\frac{4}{3}$
	(c) 3
	(d) -4
15) What is the equation of a line passing through	16) Which of the following is the equation of a line
the points (1,2) and (-2,5)?	with a slope of 0 and passing through the point
	(4,6)?
(a) $y = x + 3$	
(b) $y = -x + 3$	$(a) \times =4$
(c) $y = \frac{7}{3}x + 1$	$(b) \times = -4$
(6) 9 = 3 × 1	(c) y = 6
(d) $y = 3x + 3$	(d) y = -6
17) What is the slope of a line passing through the	18) A horizontal line has a slope of?
points (3,5) and (-2,6)?	
	(a) 0
(a) $-\frac{1}{5}$	(b) 1
_	(c) -1
(b) -1	(d) undefined
(c) -5	
(d) $\frac{11}{5}$	
19) What are the coordinates of the y-intercept of	20) The slope of a vertical line is:
the equation $y - 3x = 5$?	
	(a) O
(a) (0,3)	(b) 1
(b) (0,-3)	(c) -1
(c) (0,5)	(d) undefined

21) Find the slope of a line perpendicular to the line whose equation is $3y + 2x = 6$	22) Find the equation of the line parallel to the line whose equation is $y = -3x + 5$		
(a) 2	(a) $y = -3x - 5$		
(b) -2	(b) y = 3x - 5		
(c) $-\frac{3}{2}$	(c) $y = \frac{1}{3}x - 5$		
(d) $\frac{3}{2}$	(d) $y = 3x - \frac{1}{5}$		
23) Write an equation for a line passing through the points (c,2b) and (c,3b).	24) Which is the equation of a line whose slope is undefined?		
(a) $y = cx - b$	(a) x = -5		
(b) $y = -cx + b$	(b) y = 7		
$(c) \times = 2b$	$(c) \times = 7y$		
(d) x = c	(d) x + y = 0		
25) Which of these equations represents a line parallel to the line $2x + y = 6$?	26) Find the equation of the line that has a slope of -2 and a y-intercept of -9.		
(a) $y = 2x + 3$	(a) $y = 2x - 9$		
(b) $y - 2x = 4$	(a) y = 2x - 9 (b) y = -2x - 9		
(c) 2x - y = 8	(c) $y = -2x + 9$		
(d) y = -2x + 1	(c) y = 2x + 9 (d) y = -2x + 9		
(d) y = -2x + 1	(d) y = -2x + 9		
27) What is the domain of the following relation? {(0,2), (4,10), (6,3), (4,8)}	28) Evaluate f(10): f(x) = -2x ² + 3x - 5		
29) Which of the following represents the Equation in point-slope form for a line than has a slope of 5 and passes through the point (-6,4)?	30)What is the equation of the line graphed below?		
(a) $y + 4 = 5(x - 6)$	9 8		
(b) $y - 4 = 5(x + 6)$	(-3, 6) 6 5 4		
(c) $y + 6 = 5(x - 4)$	2 1		
(d) y - 6 = 5(x + 4)	-9 -8 -7 -6 -5 -4 -3 -2 -1 0 1 3 4 5 6 7 8 9 X -1 -2 -3 -4 -5 -6 -7 -8 -9		

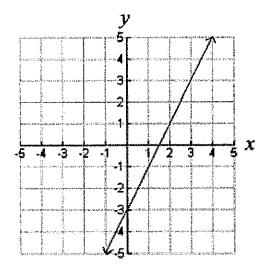
31) Find the distance between the following pair of points. Round your answer to the nearest tenth. (-5,4) and (7,7)



32) What is the slope of the line shown in the figure below?



33) What is the equation of the line graphed below?



34) Give the domain and range of the following relation. Tell whether the relation is a function. Explain why or why not.

X	Y		
7	5		
5	3		
3	5		
2	6		

Domain_____

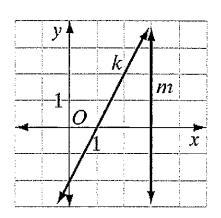
Range____

Function

Reason____

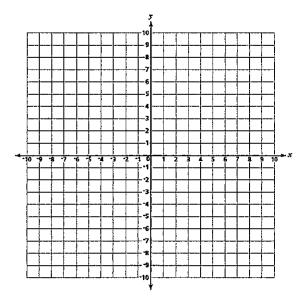
In 35-38, refer to the coordinate graph.

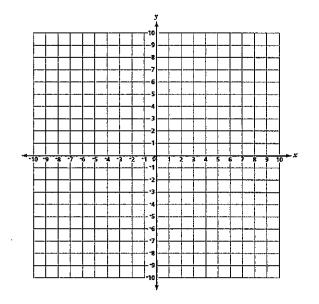
- 35) What is the slope of line k?
- 36) What is the y-intercept of line k?
- 37) What is the equation of line m?
- 38) Write an equation of the line that is parallel to line k and passes through the origin.



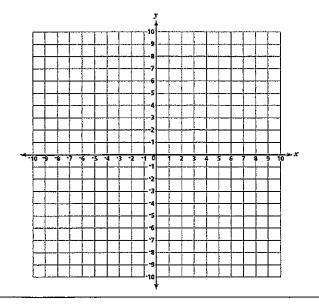
39) Graph the following on the provided coordinate planes:

a)
$$y = -x + 2$$

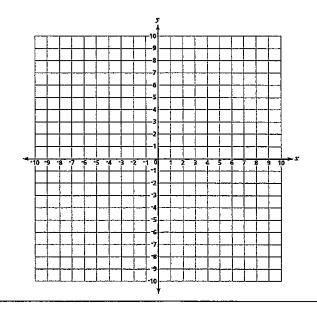


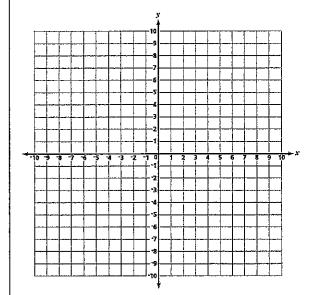


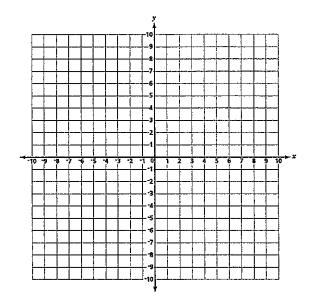
c)
$$y = \frac{2}{3}x$$



d)
$$x + 2y = 8$$

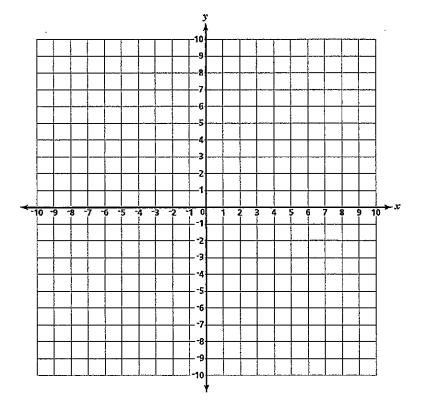




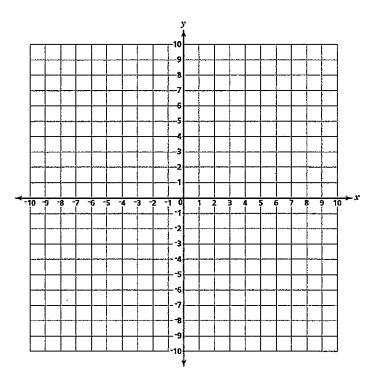


40) On the provided coordinate planes solve each system of equations graphically and check

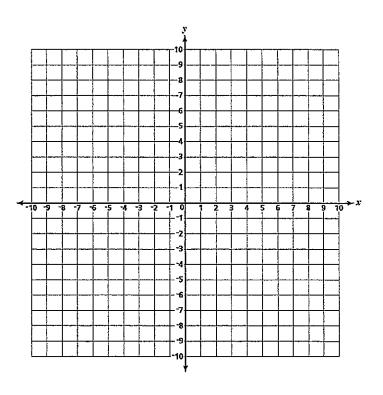
x + y = 6y = 2x - 6



b) y = -x 2x + y = 3



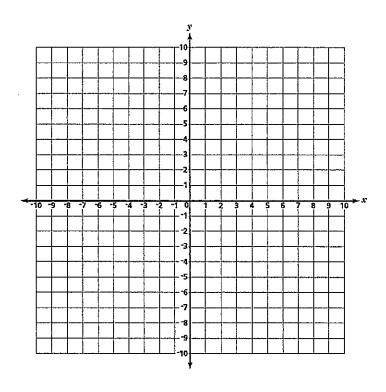
c) 2y = x + 4 x - y + 4 = 0



41) On the provided coordinate planes graph the system of inequalities and label the solution set S.

a)

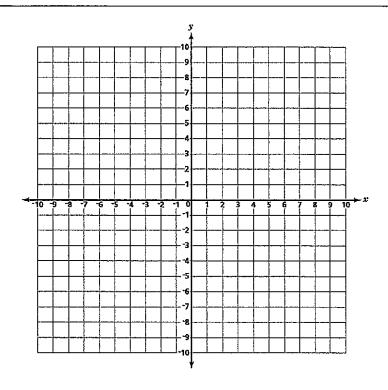
y ≤ 5 - x

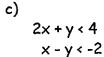


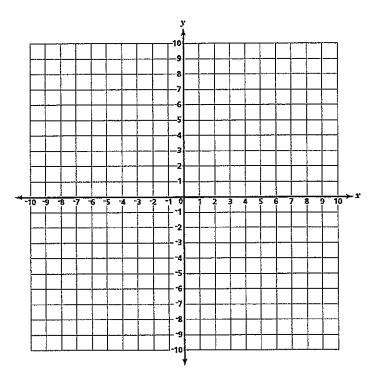
b)

$$y \le \frac{1}{2}x$$

x ≥ -4







- 42) Write an equation for a line that is parallel to the line 2y 8x = -4
- 43) What is the slope and the y-intercept of the following equation?

$$2x - y = 6$$
?

- 44) If the slope of a line is -4 and the y-intercept is 1, which of the following can be an equation of the line?
- 45) Which ordered pair is in the solution set of x y = 7?
- (a)(-7,0)
- (b) (0,7)
- (c) (-1,-8)
- (d) (-1,8)

- (a) y 4x = 1
- (b) x + 4y = 1
- (c) y + 4x = 1
- (d) x 4y = 1

46) Which equation represents a line parallel to
the line $y = 2x - 5$?

slope of 4, then what is the value of
$$\times$$
?

(a)
$$y = 5x - 2$$

(b) $y = 2x + 5$

(a)
$$\frac{11}{23}$$

(c)
$$y = -\frac{1}{2}x - 5$$

(b)
$$\frac{23}{11}$$

(d)
$$y = -2x - 5$$

(c)
$$-\frac{1}{22}$$

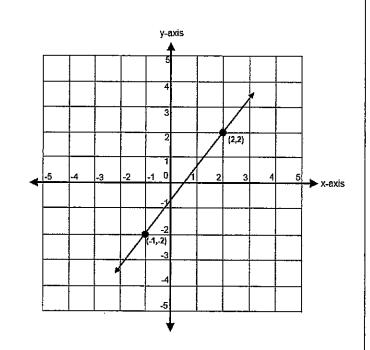
48) Write an equation of the line whose slope is
$$\frac{1}{5}$$
 and which passes through the point (10,-1)

49) A straight line with slope 5 contains the points (1,2) and (3,K). Find the value of K.

47) If the line joining $(3\times, \times +1)$ and (5, -2) has a

50) Which properties best describe the coordinate graphs of two distinct parallel lines?

- 51) What is the slope of the line graphed below?
- (a) same slopes and different intercepts
- (b) same slopes and same intercepts
- (c) different slopes and same intercepts
- (d) different slopes and different intercepts



52) What is the slope of the linear equation	53) What is an equation for the line that passes		
5y - 10x = -15	through the coordinates (2,0) and (0,3)?		
,			
(a) -10	2		
	(a) $y = -\frac{2}{3}x - 2$ (b) $y = \frac{3}{2}x - 3$		
(b) 2	3		
(c) 10	$\frac{3}{100} = \frac{3}{100} = \frac{3}$		
(d) -15	(6) 7 - 2 ~ 3		
	(c) $y = -\frac{2}{3}x + 2$		
	$(c) y = -\frac{1}{3} x + 2$		
	3		
	(d) $y = -\frac{3}{2}x + 3$		
	2		
54) If a line is horizontal, its slope is	55) What is the slope of any line perpendicular to		
	the lines 5x - 6y = 30?		
(a) negative	THE IIIIGS OX O7 = GO.		
(a) negative	(-) 30		
(b) 1	(a) 30		
(c) undefined	(b) $\frac{6}{5}$		
(d) 0	5		
	(c) -30		
	$(d) - \frac{6}{5}$		
	3		
56) What is the equation of the line having a slope			
of 0 and passing through the point (8,3)?	{(2,0), (3,3), (6,-2), (4,-6), (8,3)}		
$(a) \times = 8$			
(b) y = 8			
(c) x = 3			
(d) y = 3			
58) Are the following graphs functions?	59) Are the following mappings functions?		
	M A		
	Map A Map B		
	Input Output Input Output		
	10		
	20 25		
	30 35		
	40 45 3 40		
	1		

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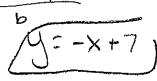
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Review for Graphing Test

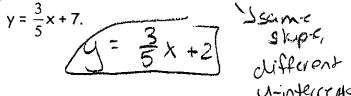
1)	What i	s the	slope o	of the	graph y =	: -2x + 5?

2) Solve the equation for y in terms of x:

3) Write an equation of the line whose slope is -1 and whose y-intercept is 7.



4) Write an equation that is parallel to the line



5) Write an equation that is perpendicular to the

line y = $\frac{5}{5}$ x + 7.		· Negative		
		خلاف المستخدد الماس المستخدد المستخد المستخدد ا	7 recipionals	
	14=	-31-3	a School or	

6) What is the slope of the line that passes through the points (4,5) and (6,1)? $\times_{i} Y_{i} \qquad \times_{2} Y_{2}$

$$\int \frac{1}{\sqrt{3}} \int \frac$$

7) If the point (d,3) lies on the graph of 3x - y = 9, find the value of d.

$$3x - y = 9$$
 $3(a) - (3) = 9$
 $13 + 13$
 $3d = 12$
 $3 = 12$
 $3 = 41$

8) Which point does not lie on the graph of

8) Which point does not lie on the graph of
$$3x-y=9$$
? $(1,-6)$ $(2,3)$ $3x-y=9$ $(a)(1,-6)$ $3(1)-(-6)=9$ $3(2)-3=9$ $(b)(2,3)$ $3+6=9$ $6-3=9$ $(c)(3,0)$ $9=9$ $3+9$ $(d)(0,-9)$

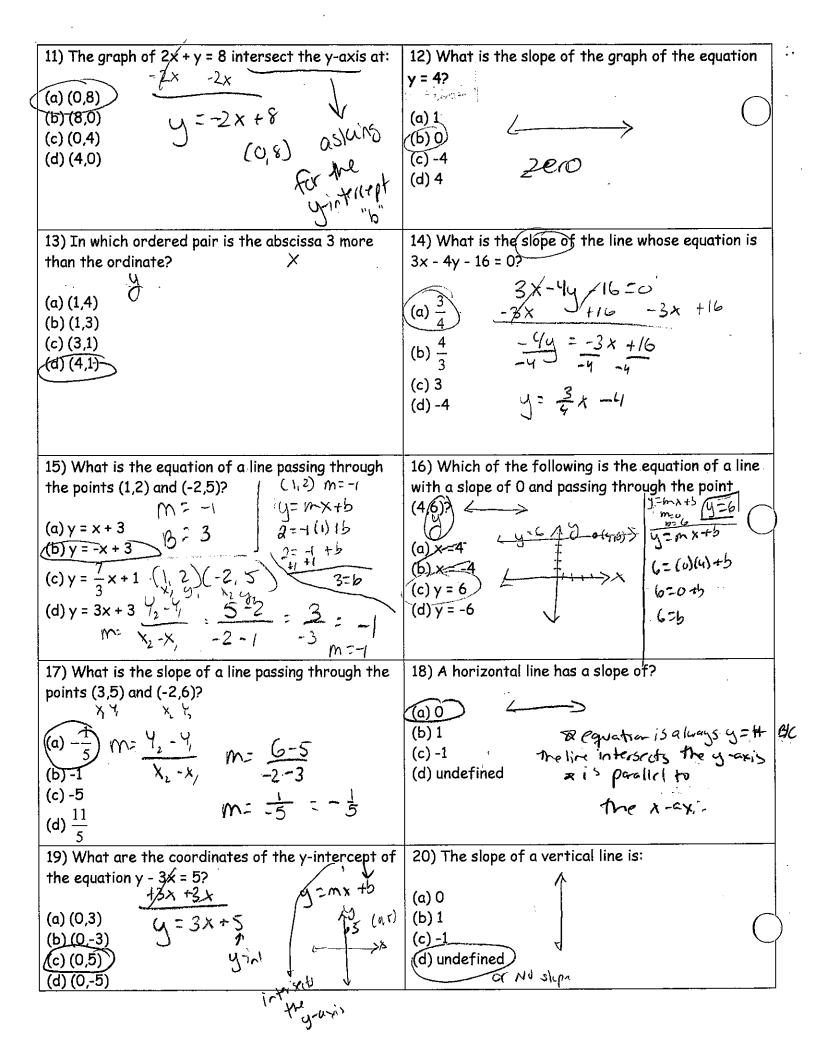
2) W	11011 01	dei ed puii	15 111 11	116 201011	On Sel OI
y < 2x	- 4?	4 42 x	ـ لـ		T
X	3	1 ,			Satisfice
(a) (0	-5)	-5 < 2(à)-4		
(b) (2	,0)	-540-9			
(c) (3	3)	-56-4			
) (0	.2)	~ ~			

10) Which equation has a graph parallel to the graph of y = 5x - 2?

(a)
$$y = -5x$$

(b) $y = 5x + 3$
(c) $y = -2x$
(d) $y = 2x - 5$

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•	1.		-0	- 1-		Ŧ

							,	<u>, </u>	
21)	Find th	e slope	of a l	ine(p	erp	endi	cular	to	the
		equatio				_			



(c)
$$-\frac{3}{2}$$

$$(d) \frac{3}{2}$$

22) Find the equation of the line parallel to the line whose equation is y = (-3)x + 5

$$(a) y = -3x - 5$$

(b)
$$y = 3x - 5$$

(c)
$$y = \frac{1}{3}x - 5$$

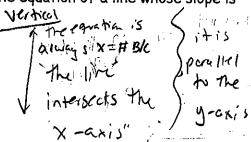
(d)
$$y = 3x - \frac{1}{5}$$

(d)
$$y = 3x - \frac{1}{5}$$

- 23) Write an equation for a line passing through the points (c,2b) and (c,3b).
- (a) y = ex = b (b) y = cx + b
- $(c) \times = 2b$ (d) x = c
- 24) Which is the equation of a line whose slope is undefined?

26) Find the equation of the line that has a slope

- (a) x = -5(b) y = 7
- (c) $x = 7y^{-1}$
- (d) x + y = 0



25) Which of these equations represents a line parallel to the line 2x + y = 6?

(a)
$$y = 2x + 3$$

(b)
$$y - 2x = 4$$

$$2x - y = 8$$

$$(a) y = -2x + 1$$

(a) y = 2x - 9

of -2 and a y-intercept of -9.

(a)
$$y = 2x - 9$$

(b) $y = -2x - 9$

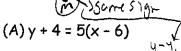
$$(c) y = 2x + 9$$

(d)
$$y = -2x + 9$$

- (b) y = -2x = 9(c) y = 2x + 9
- 27) What is the domain of the following relation? {(0,2), (4,10), (6,3), (4,8)} ×-ualves,

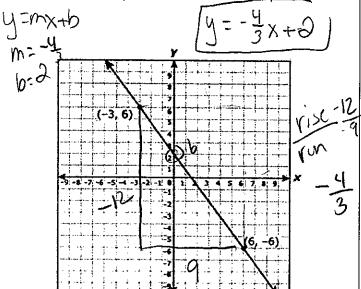
numerical order don't list any repeats 28) Evaluate f(10): $f(x) = -2x^2 + 3x - 5$ f(10) = -2(10) 2+3(10) -5 f(10)= -2(100) +3(10)-5

29) Which of the following represents the equation in point-slope form for a line that has a slope of $\sqrt{5}$ and passes through the point (-6(4))?

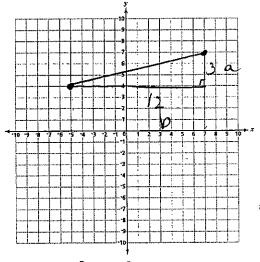


- (C) y + 6 = 5(x 4) + 4 4 5(x + c)

30) What is the equation of the line graphed below?



31) Find the distance between the following pair of points. Round your answer to the nearest tenth (-5,4) and (7,7)



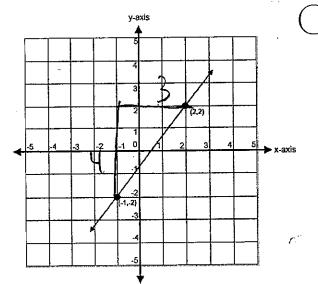
$$0^{2} + b^{2} - c^{2}$$

$$3^{2} + 12^{2} = c^{2}$$

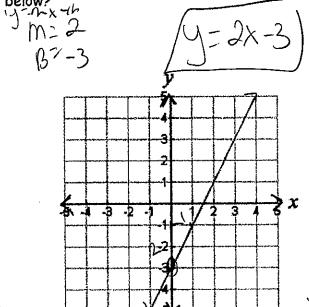
$$9 + 144 = c^{2}$$

$$\sqrt{53} = \sqrt{c^{2}} \left(c = 12.4\right)$$

32) What is the slope of the line shown in the figure below?



33) What is the equation of the line graphed



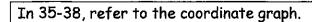
34) Give the domain and range of the following relation. Tell whether the relation is a function. Explain why or why not. A X-Values Can't repect
y-values Car

7 I + must pass the vertical 5 livetest (only goes through 3 5 graph 1 time)

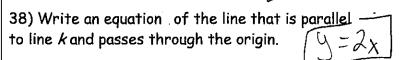
Range_

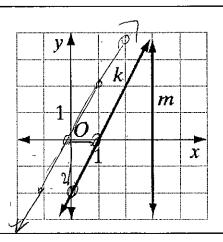
Reason BC each plement of the domain

Corresponds to one rouly one element



- \sim What is the slope of line R
- 36) What is the y-intercept of line $R \rightarrow \mathcal{A}$
- 37) What is the equation of line m? (x=3)

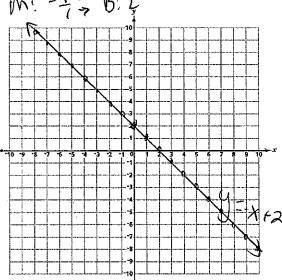


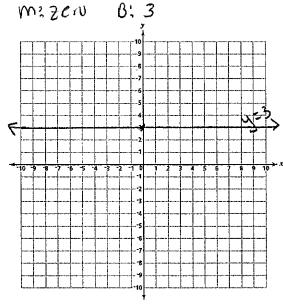


39) Graph the following on the provided coordinate planes:

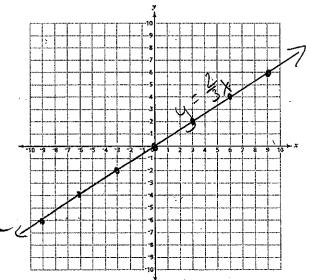
a)
$$y = -x + 2$$

M: $-\frac{1}{7}$ B: $\frac{1}{7}$

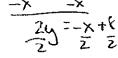


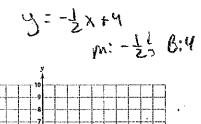


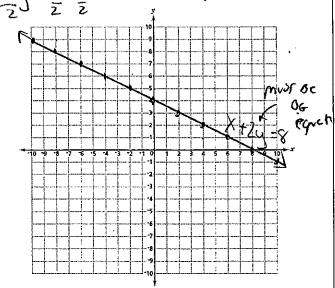
c)
$$y = \frac{2}{3} \times$$
 $\%$: $\frac{2}{3} \Rightarrow \%$:0

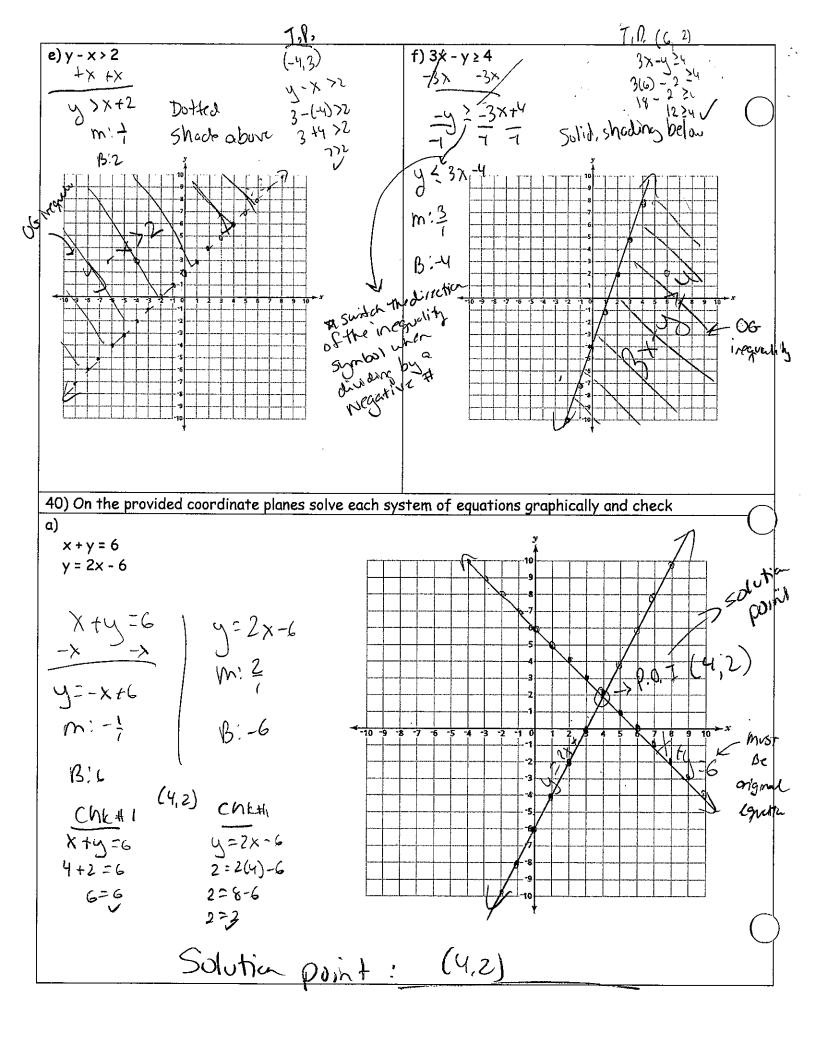


d)
$$x + 2y = 8$$



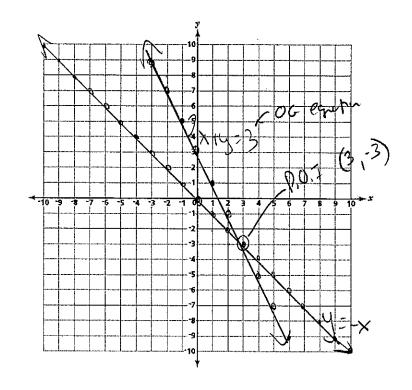






$$\begin{array}{c|c}
y = -x & 2x + y = 3 \\
m' - 11 & y = -2x + 3 \\
m' - 1 & m' - 21 \\
B' 0 & B' 3
\end{array}$$

$$\begin{array}{c|c}
 & B:3 \\
\hline
CNLH1 & CHLHL \\
 & 2x+y=3 \\
 & -3=-3 \\
 & -3=-3 \\
 & 3=-3 \\
 & 3=-3
\end{array}$$



$$\frac{2y}{2} = \frac{x+4}{2}$$

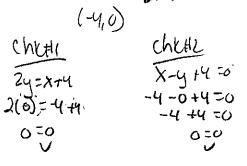
$$y = \frac{1}{2}x+2$$

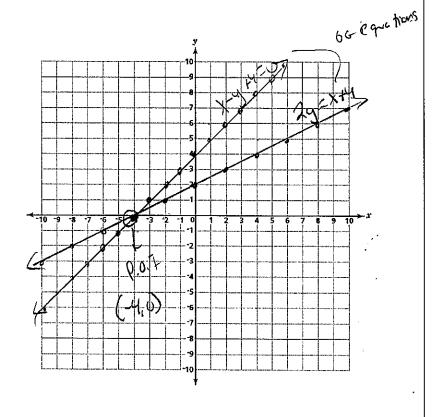
$$y = \frac{1}{2}x+2$$

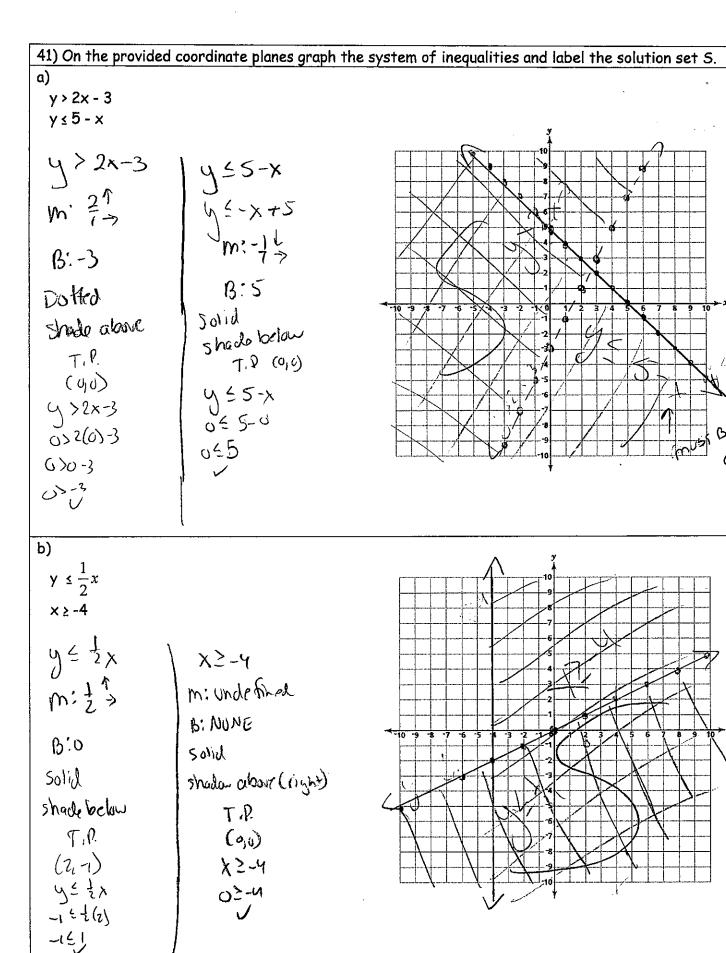
$$y = -x-4$$

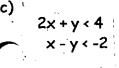
$$y = x+4$$

$$y = x+$$



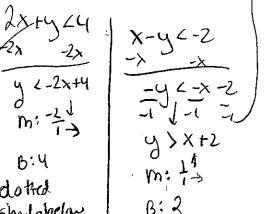




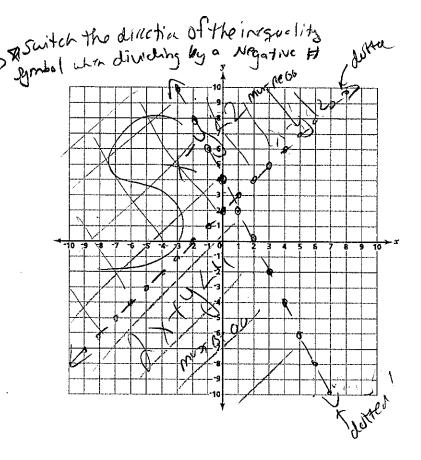


B:4 · dotted · Shadobelow

T.P. (0,0) 22 +424 2(3) +024 0+064 024



- dotta: oshadoberc T.D. (-5,3) x-y2-2 -5-34-2 -86-2



رحر) Write an equation for a line that (is paralle) to the line 2y - 8x = -4

$$\frac{2y - 8x - 4}{2y - 8x - 4}$$

$$\frac{2y - 8x - 4}{2}$$

$$y = 4x - 2$$

$$y = 4x + 3$$

43) What is the slope and the y-intercept of the following equation?

$$\frac{2x-y=6?}{-2x} - \frac{-2x+c}{-1}$$

$$\frac{-y=-2x+c}{-1} - \frac{1}{-1} = \frac{$$

44) If the slope of a line is -4 and the y-intercept is 1, which of the following can be an equation of 4 = -4x +1 the line?

(a)
$$y = 4x = 1$$
 $y = 4x = 1$ $y = -4x = 1$ $y = -4x = 1$ $y = -4x = 1$

45) Which ordered pair is in the solution set of 🚌

guess which until you get the convert and

(d) y = -2x - 5

48) Write an equation of the line whose slope is $\frac{1}{2}$ and which passes through the point (10,-1)

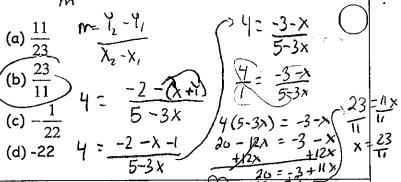
$$m = \frac{1}{5}$$

$$6^2 - \frac{3}{5}$$

$$\sqrt{y = \frac{1}{5}x - 3}$$

 $y = \frac{1}{5}$ y = mx + b $p = -\frac{1}{5}$ y = mx + b

 χ , γ , χ , γ 47) If the line joining (3x, x+1) and (5,-2) has a slope of 4, then what is the value of \times ?



49) A straight line with slope 5 contains the points (1,2) and (3,K). Find the value of K.

$$M = \frac{Y_2 - Y_1}{\lambda - x_1}$$

$$5 = \frac{K - 2}{3 - 1}$$

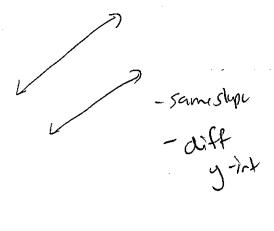
$$5 = \frac{K - 2}{2}$$

$$K = 12$$

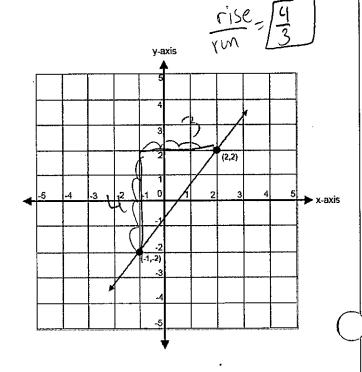
$$K = 12$$

graphs of two distinct parallel lines?

- (a) same slopes and different intercepts
- (b) same slopes and same intercepts
- (c) different slopes and same intercepts
- (d) different slopes and different intercepts



50) Which properties best describe the coordinate | 51) What is the slope of the line graphed below?



52) What is the slope of the linear equation 5y - 10x = -15

$$\frac{10x}{5y} = \frac{10x - 15}{3}$$

53) What is an equation for the line that passes through the coordinates (2,0) and (0,3)? 45mx+5

(a)
$$y = -\frac{2}{3}x - 2$$
 $m = y_2 - y_1$

(b) $y = \frac{3}{2}x - 3$

(b)
$$y = \frac{3}{2}x - 3$$
 $x_2 - x$, $0 = -\frac{3}{2}(z) + b$
(c) $y = -\frac{2}{3}x + 2$ $0 = -\frac{3}{2}(z) + b$
(d) $y = -\frac{3}{2}x + 3$ $0 = -\frac{3}{2}(z) + b$

54) If a line is horizontal, its slope is

(a) negative

(b) 1



(d) 0

55) What is the slope of any line perpendicular to the lines 5x - 6y = 30?

M--3

(b)
$$\frac{6}{5}$$

(b)
$$\frac{-}{5}$$
 (c) -30

57) What is the range of the following relation:

56) What is the equation of the line having a slope of 0 and passing through the point (8,3)?

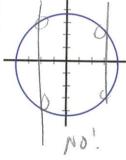
 $\{(2,0), (3,3), (6,-2), (4,-6), (8,3)\}$ · y-valusa 8 unitem numerical order

* Don't list any repeato

(a)
$$x = 8$$
 m=0
(b) $y = 8$ G=3
(c) $x = 3$ 3 = 0(1) +5
(d) $y = 3$ 3 = 0

59) Are the following mappings functions?

passes the vertical live test. The verdical like only gors thrush goes through the the function I tim Each element of the Distance correspondo to one and only one element of the range and only are element of the



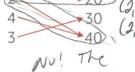
Fails the vertical line test. The verticallin graph more than I time Each element of the Dorosh does not correspond to one

Map A Input Output →15 yes!

Each element of the domain correspondo to one orally one element of the 1000gc

Map B

Input Output



X- valvis repeat!

Each element of The domain does not correspond to one vanly one Clement of the range