1. $y = x - 1$

x	y
-2	
-1	
0	
1	
2	

2. $y = x + 2$

x	y
-2	
-1	
0	
1	
2	

3. $y = 3 - x$

x	y
-2	
-1	
0	
1	
2	

4. $y = 2x + 2$

x	y
-2	
-1	
0	
1	
2	

The domain of each of the following equations is {–2, –1, 0, 1, 2}. Complete a table of values. Then, graph each equation.

5. $y = x + 1$
6. $y = x - 2$
7. $y = 2x + 1$
8. $y = 2x - 1$
9. $y = 3x + 4$
10. $y = 3x - 2$

Graph each equation. The domain is R.

11. $y = x + 4$
12. $y = 3x + 2$
13. $y = 2x - 4$
14. $y = 4 - x$
15. $y = 5 - 3x$
16. $y = -2x + 7$

Given the table of values, write an equation for each relation.

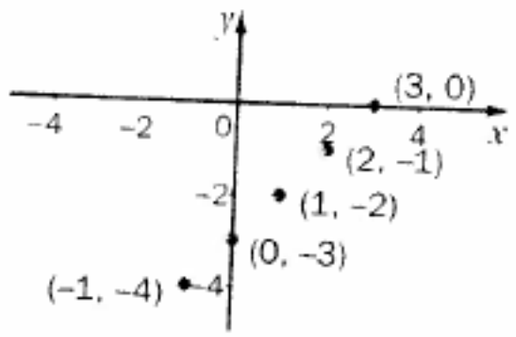
17.

x	y
-2	0
-1	1
0	2

18.

x	y
-2	2
-1	1

21.



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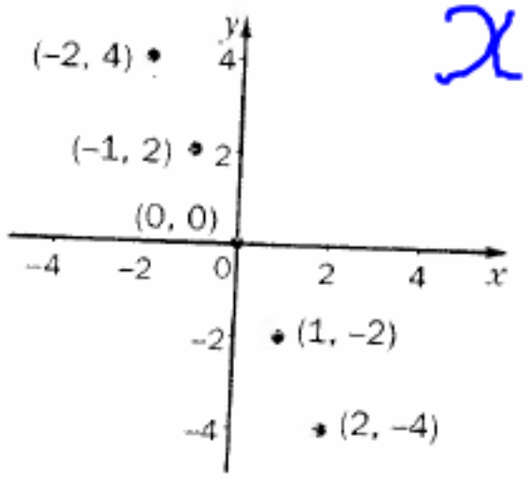

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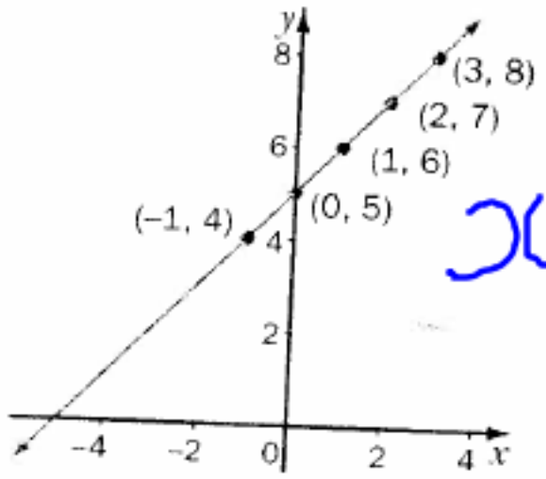

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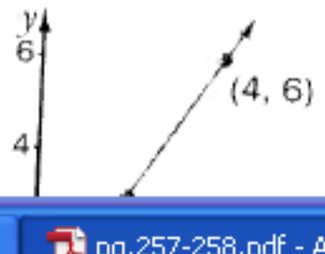

p257
x - 3 = y
x + 5 = y

2013-04-24.ks-ia1 - Infinite Algebra 1

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Current Question Sets

8 × Graphing Lines

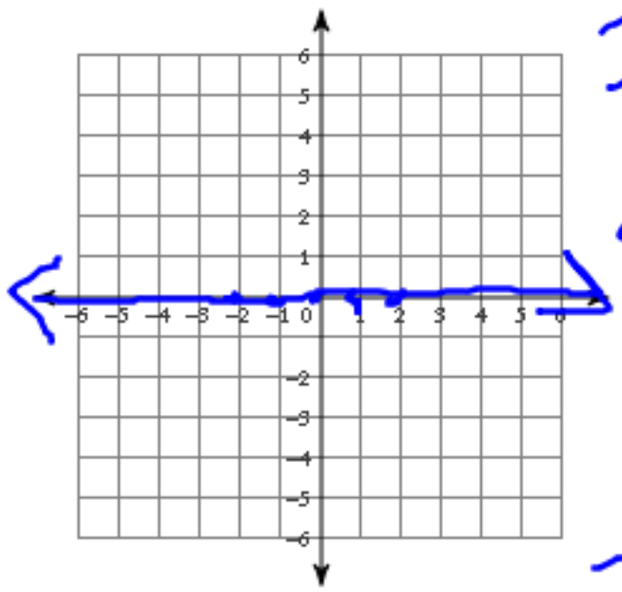
Questions: 8
Length: 1.70 pages

Desired length

Index Order

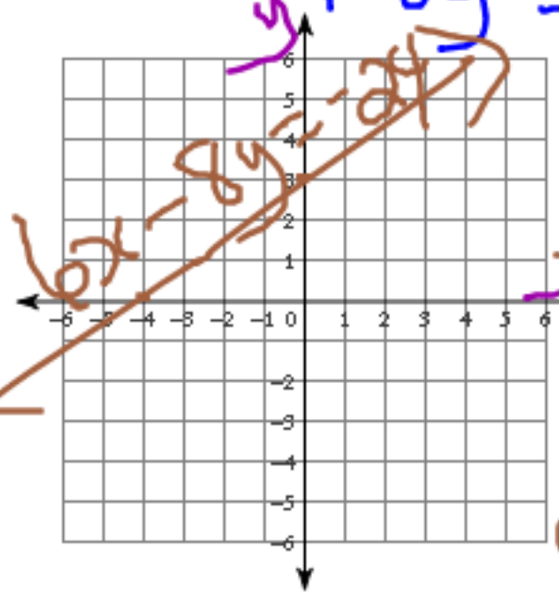
Absolute value
  Equations, graphing
  Equations, solving
  Inequalities
Combining like terms
Completing the square
  By finding the constant
  Solving equations by
Custom question

5) $y = 0$



x	y
2	0
1	0
0	0
−1	0
−2	0

6) $6x - 8y = 24$



$6x - 8y = 24 \Rightarrow -8y = -6x + 24$

$\frac{-8y}{-8} = \frac{-6x}{-8} + \frac{24}{-8}$

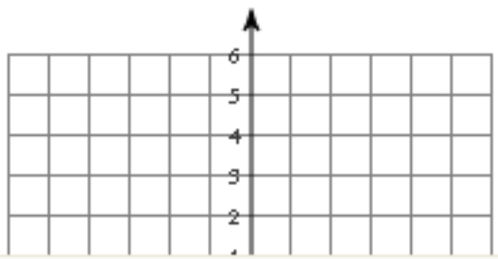
$y = \frac{3}{4}x - 3$

x	y
−4	−6
0	−3
4	0

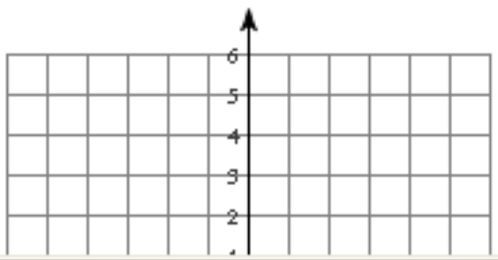
$6x + 24 = 8y$

$\frac{6x}{8} + \frac{24}{8} = \frac{8y}{8}$

7) $-y - x = 2$



8) $0 = -1 + y - 2x$



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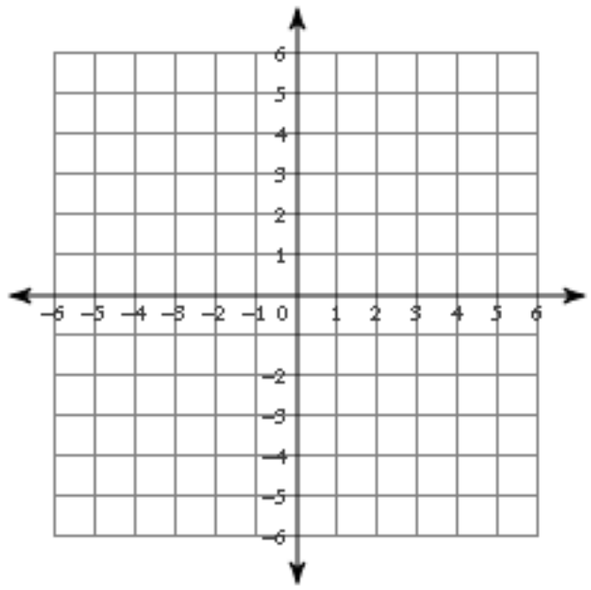
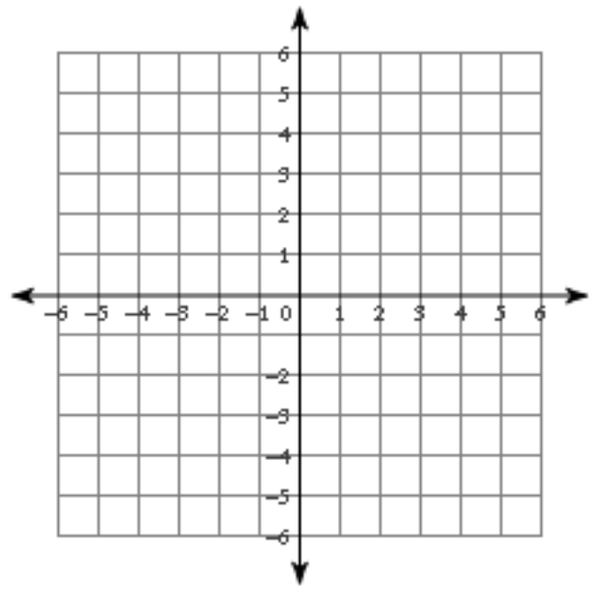
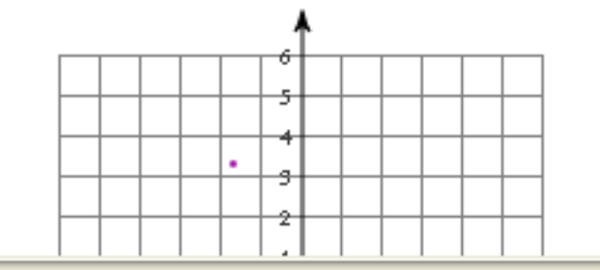
5) $y = 0$



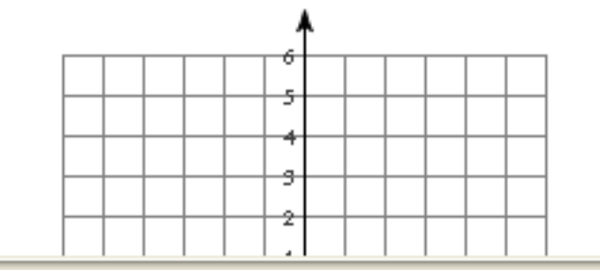
6) $6x - 8y = -24$



7) $-y - x = 2$

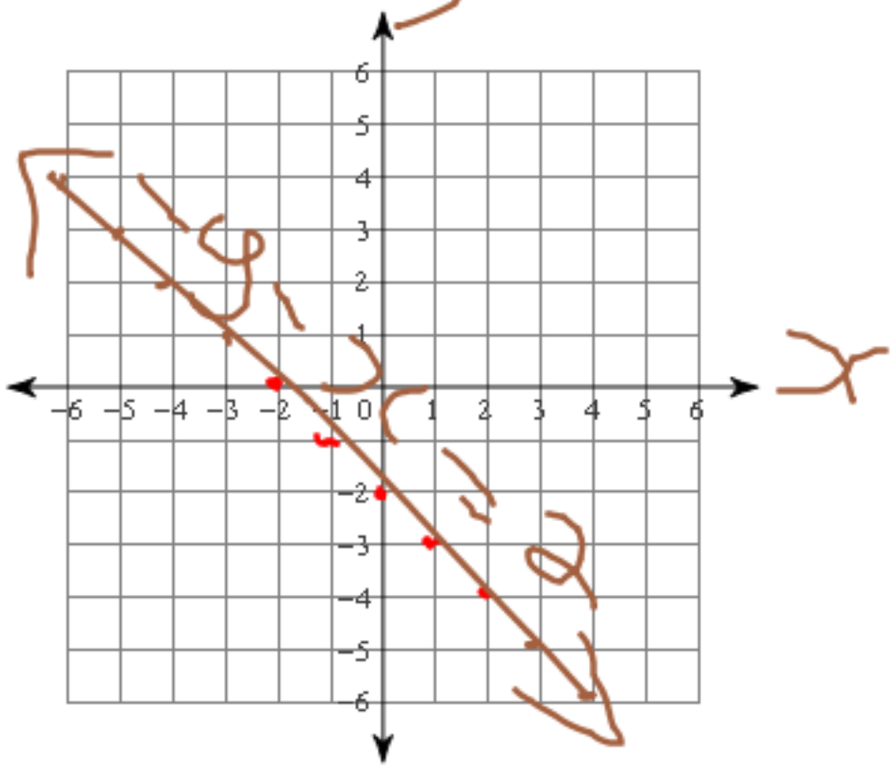


8) $0 = -1 + y - 2x$



Sketch the graph of each line.

7) $-y - x = 2$



$y = -x - 2$

x	y
-2	0
-1	-1
0	-2
1	-3
2	-4

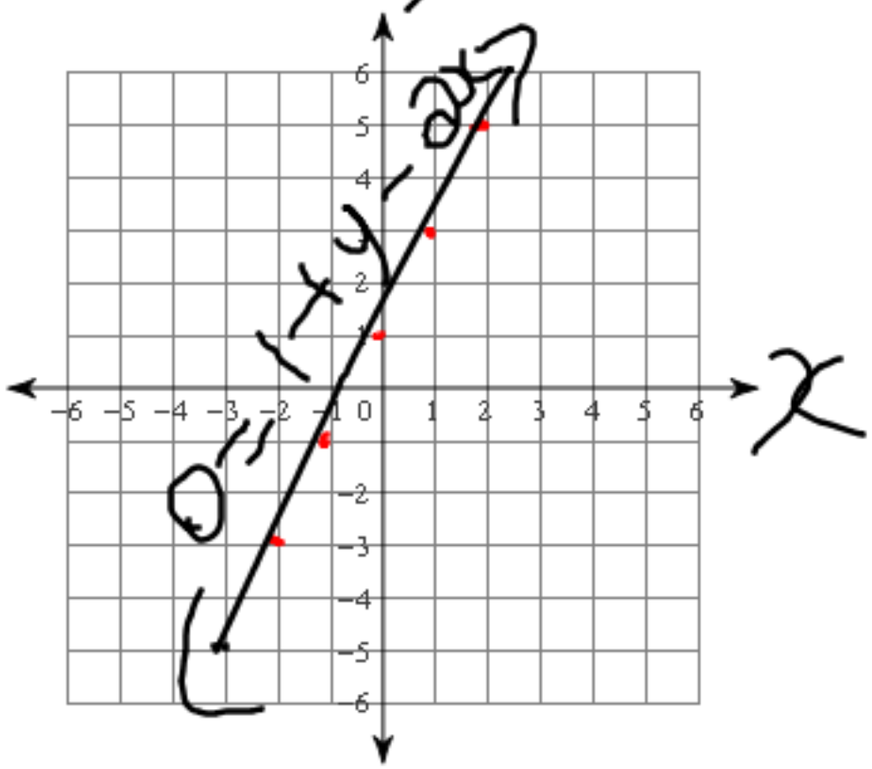
$-1(-1) - 2$

$1 - 2$

Sketch the graph of each line.

+1 +2x +1 +2x

8) $0 = -1 + y - 2x$



$y = 2x + 1$

x	y
-2	-3
-1	-1
0	1
1	3
2	5

May 8 test

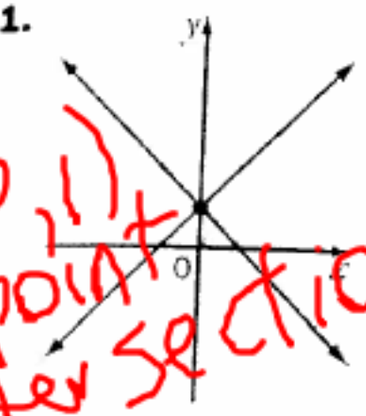
Intersecting Lines Apr'30

Practice

A

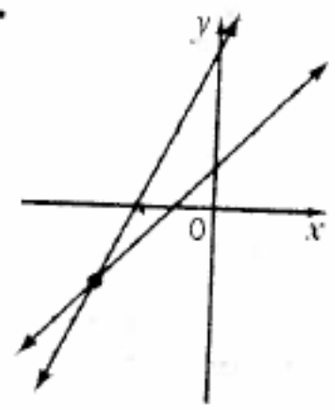
Find the coordinates of the point of intersection for each pair of lines.

1.



(2,1) is the point of intersection

2.



What is the point of intersection for each of the following pairs of lines?

3.

x	y
-2	-2
-1	-1
0	0
1	1
2	2

x	y
-2	2
-1	1
0	0
1	-1
2	-2

pt of int (0,0)

4.

x	y
2	1
1	0
0	-1
-1	-2
-2	-3

x	y
2	4
1	2
0	0
-1	-2
-2	-4

5. Write an equation for the line represented by each table of values in questions 3 and 4.

Applications and Problem Solving

17. a) Graph the lines $y = 2x - 4$ and $y = x - 4$ on the same set of axes.

b) What figure is formed by these lines and the x-axis?

B

18. Truck rentals Two companies rent trucks. Company A charges $80.00 for the truck, plus $0.20/km. Company B charges $0.60/km.

a) Write an equation for each company's rental cost in terms of the distance driven.

b) Graph both equations on the same set of axes. If you graph manually, use the following numbers of kilometres in your tables of values: 50, 100, 150, 200, 250, 300.

c) Find the coordinates of the point of intersection.

d) Explain the meaning of the point of intersection.

e) Which company is cheaper if you drive 150 km? 250 km?

19. Highway driving At 12:30, Kenji left town driving at 80 km/h. At 13:00, Yvette left town along the same highway driving at 100 km/h.

a) Construct a table of distance and time values for each driver.

b) Plot both graphs on the same grid.

c) At what time did Yvette catch up with Kenji?

d) How far had they travelled?

6. Find the point of intersection

$y = 2x$

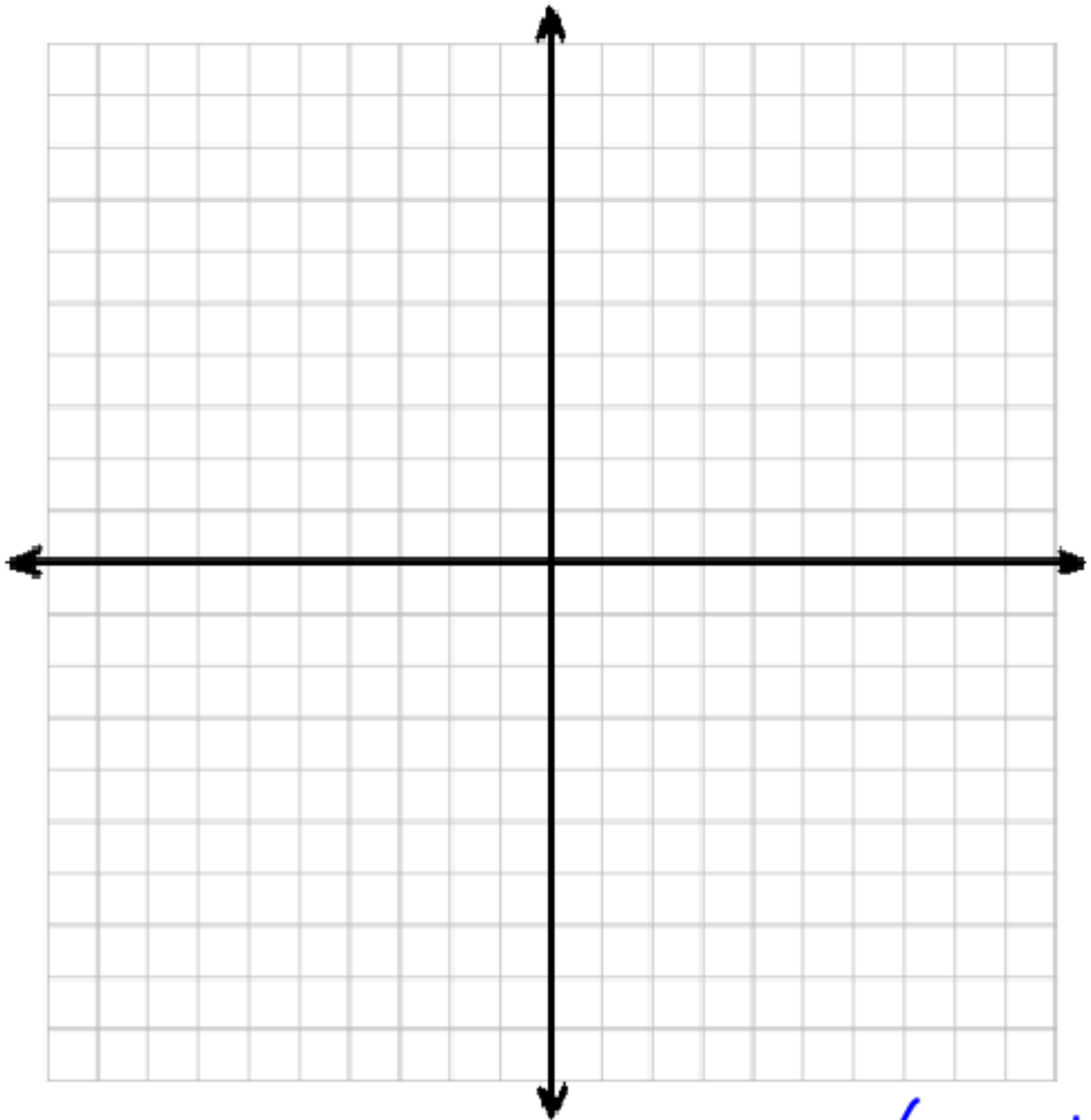
x	y
-2	-4
-1	-2
0	0
1	2
3	6

$y = x + 3$

x	y
-2	1
-1	2
0	3
1	4
2	5
3	6

(3, 6)

9)



$y = x + 4$

x	y
-2	2
-1	3
0	4
1	5

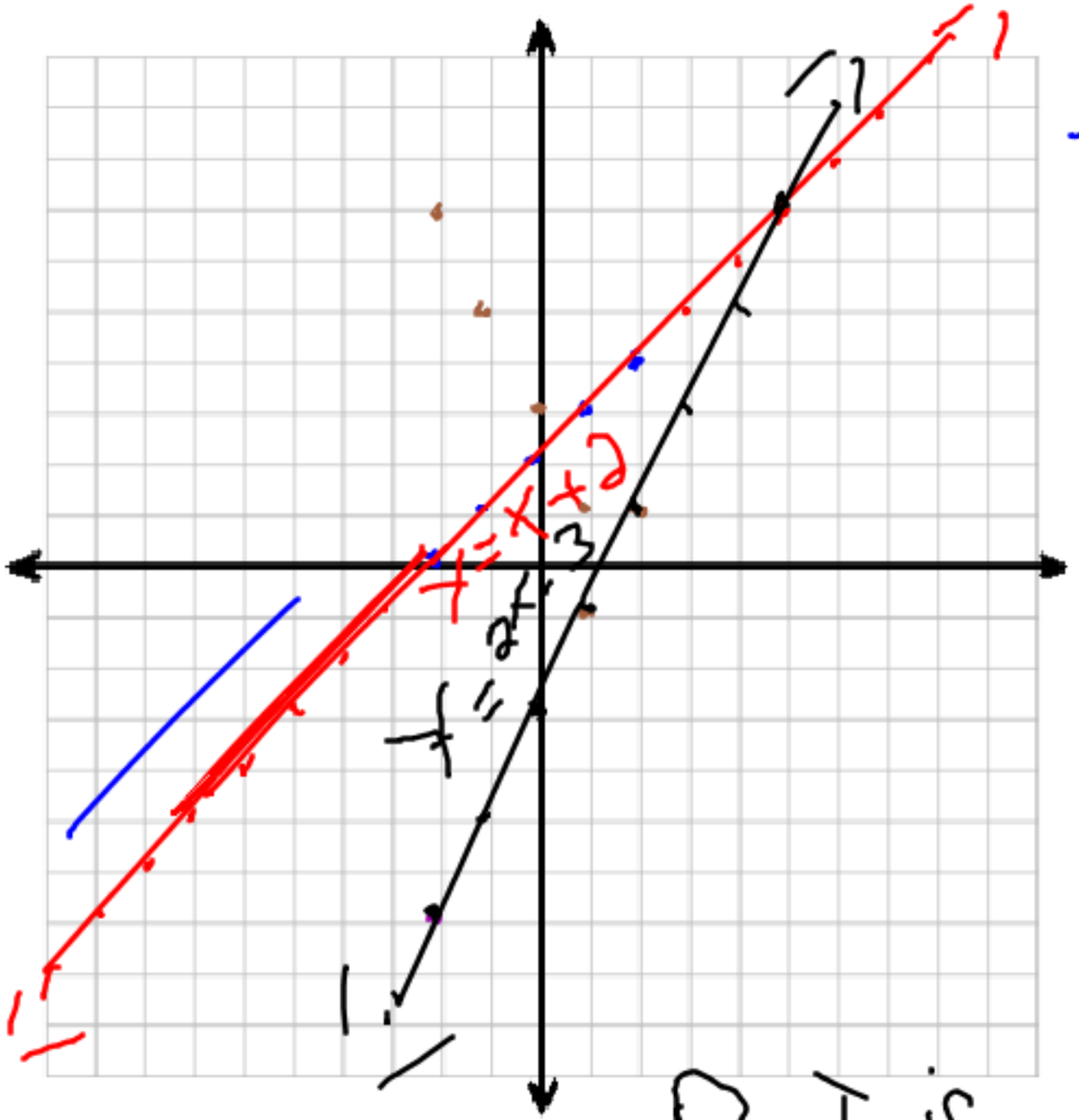
$y = 3x$

x	y
-2	-6
-1	-3
0	0
1	3

Pt $= (2, 6)$

2	6	2	6

11)



$y = x + 2$	
x	y
-2	0
-1	1
0	2
1	3
2	4

$y = 2x - 3$	
x	y
-2	-7
-1	-5
0	-3
1	-1
2	1

p. 257 - finish

p. 441 thru 12.