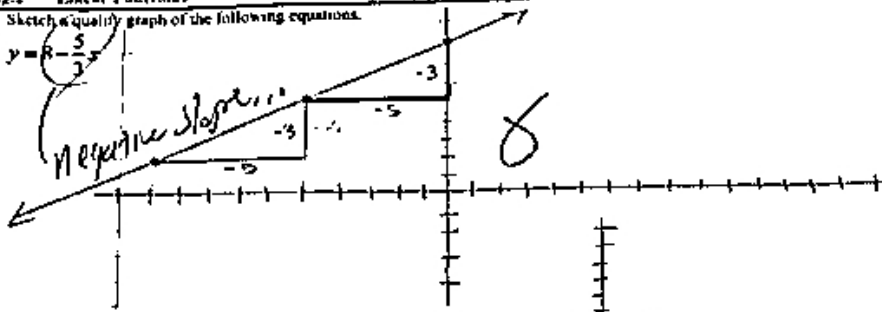


1) Sketch a quality graph of the following equations.

a)  $y = 8 - \frac{3}{5}x$



b)  $4x - 3y + 15 = 0$

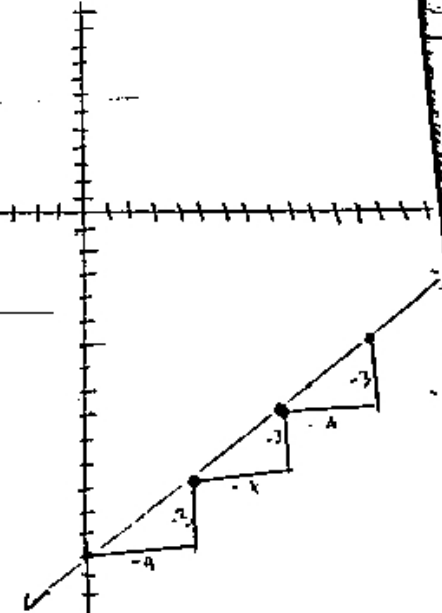
$\frac{-3y + 15}{-3} = \frac{-4x}{-3}$

$y + 5 = \frac{4}{3}x$

$y = -5 + \frac{4}{3}x$

*Not*

Method X understanding

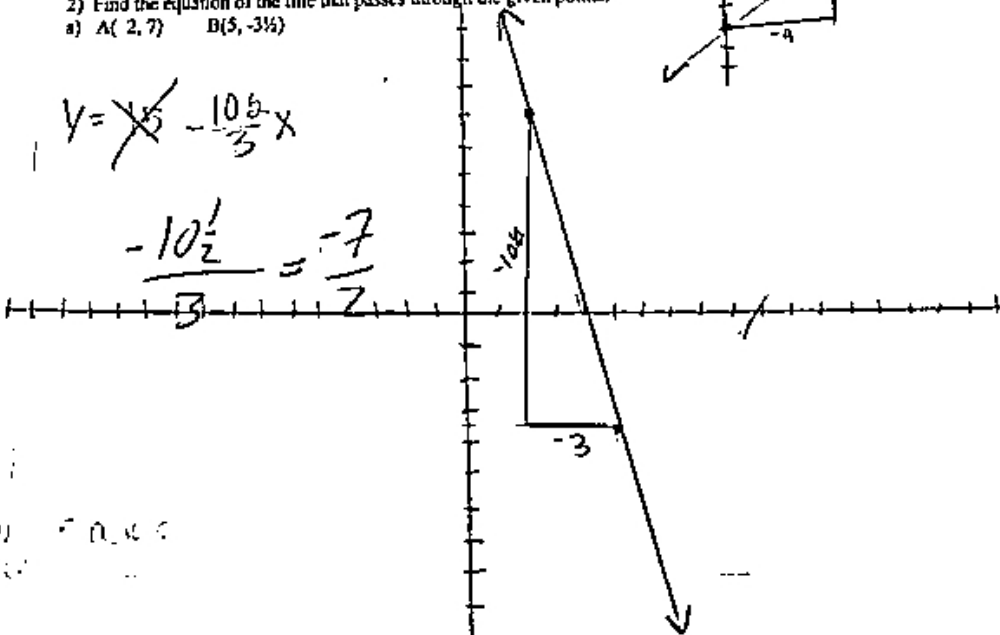


2) Find the equation of the line that passes through the given points:

- a) A(2, 7) B(5, -3 1/2)

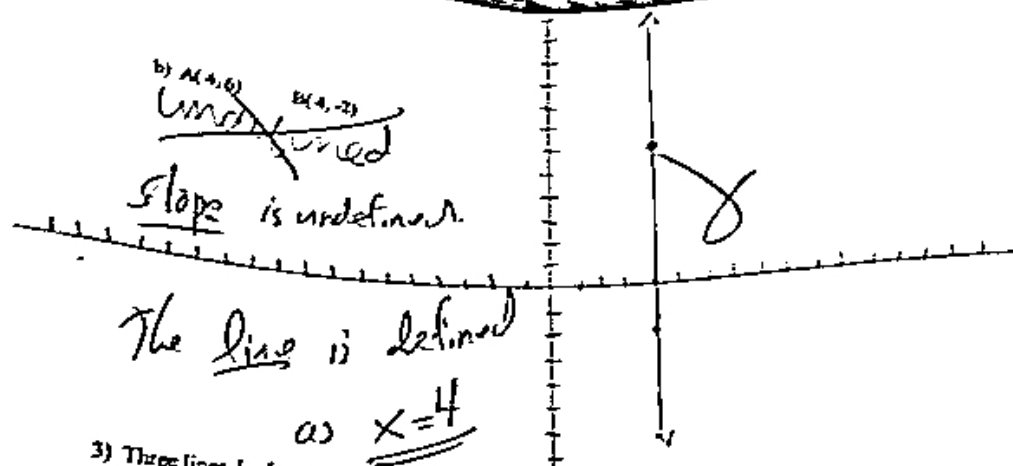
$y = -\frac{10\frac{1}{2}}{3}x$

$\frac{-10\frac{1}{2}}{3} = \frac{-7}{2}$



10 1/2 = 21/2

$(1, 4, 6)$   $(4, 2)$   
~~undefined~~  
 slope is undefined.

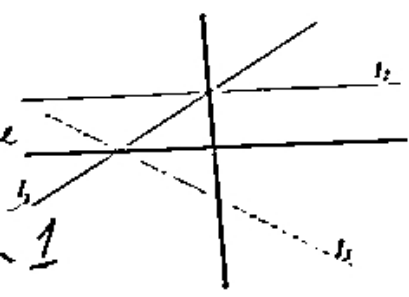


The line is defined  
 as  $x=4$

3) Three lines  $l_1$ ,  $l_2$ , and  $l_3$  are graphed below. As you learned in this unit, each line has an equation of the form  $y = c + dx$ .

a. Describe the value of  $d$  in the equation of the line  $l_1$ . Assume that the scale on the y-axis is the same as the scale on the x-axis.

$d$  is positive  
 on  $l_1$ ,  $d$  is the slope and the slope is pos. & less than 1 going upward?



b. Compare the value of  $d$  in the equation of  $l_2$  to the value of  $d$  in the equation of the line  $l_3$ .

both have different slopes. } opposites (vocab)  
 $l_2$  pos. slope = increase  
 $l_3$  neg. slope = decrease

c. Determine the value of  $d$  in the equation of line  $l_2$ .

There is no slope because  $\rightarrow d=0 \leftarrow$  that is a straight horizontal line.

d. Are the values of  $c$  equal in the equations of any two of the three lines  $l_1$ ,  $l_2$ , and  $l_3$ ? Explain your answer.

Yes,  $l_1$  and  $l_3$ . ~~because~~ They hit the same point on the y-axis.

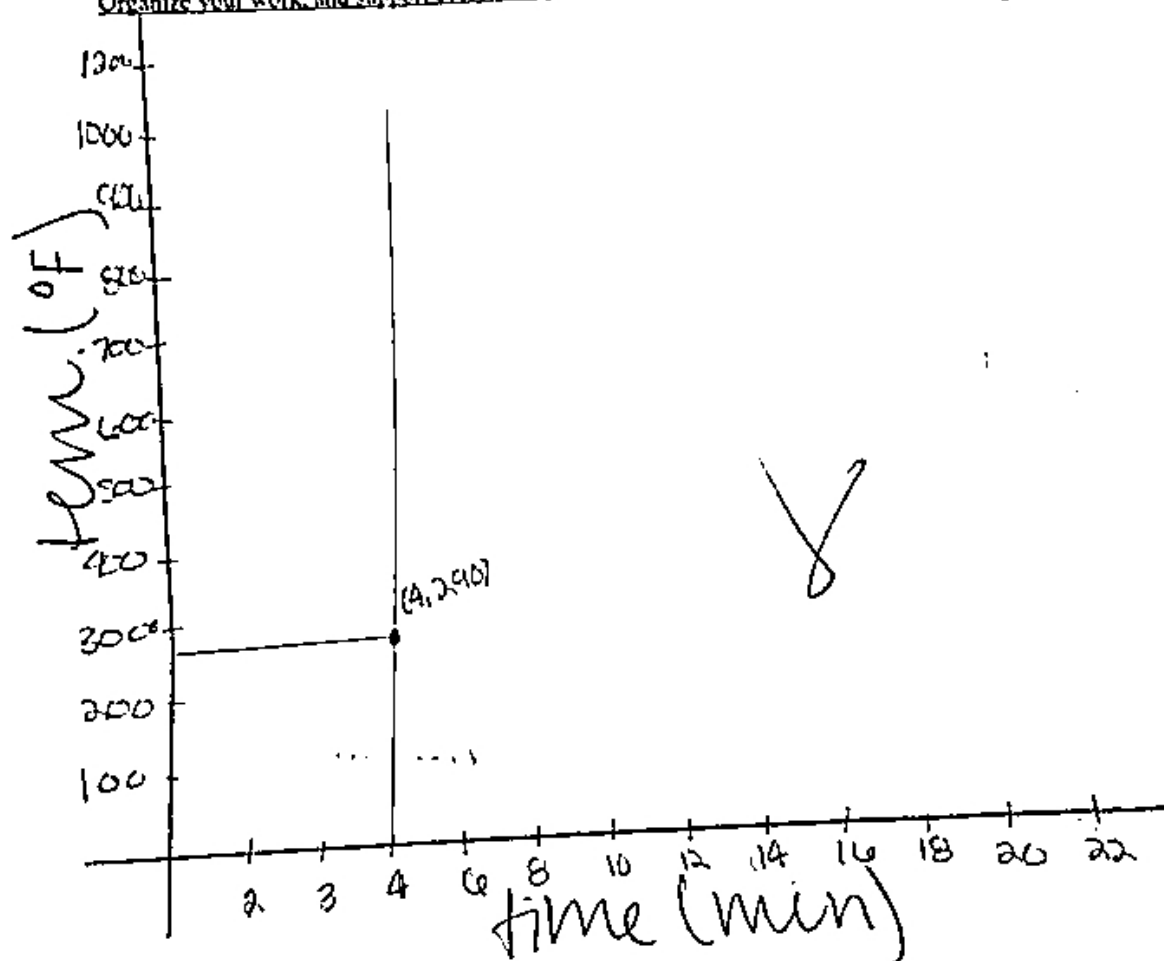
4) Four minutes after turning an oven on to pre-heat it, Pat observed the oven temperature was  $290^{\circ}\text{F}$ . Two minutes after that, the temperature was  $400^{\circ}\text{F}$ . Represent these data on a graph.

a. Assuming the oven temperature increases at a constant rate, determine the rate of change in the temperature over time.

b. Using  $x$  to represent minutes since the oven was turned on, express the temperature of the oven,  $f$ , as a function of time.

c. Using your function equation, what was the temperature of the oven the moment it was turned on? Support your answer.

d. When Pat walked past the oven a while after turning it on, she noticed that the temperature read  $482.5^{\circ}\text{F}$ . Use your function equation to determine how long the oven has been on. Organize your work, and support everything graphically.



5)a) Determine the equation of the line that passes through all points in this table.

x	y
-3	16
3	6
9	-4
15	-14

8

b) A line is parallel to the line described in part a, but it passes through the point (0, 5). What is the equation of that line?

8

c) Another line is perpendicular to the line in part a, and it also passes through the point (-3, 5). What equation of that line?

8

	Test Item Number: (Check any boxes that apply.)	1 a	1 b	2 a	2 b	3 a	3 b	3 c	3 d	4 a	4 b	4 c	4 d	5 a	5 b	5 c		
<b>Written Work</b>	My work is ORGANIZED and easy to follow.	x	x	x	x	x	x	x	x									
	My work is correct and complete; includes support, multiple approaches, graph/table, whenever possible.																	
	I used MATH NOTATION flawlessly.																	
<b>Mathematical Methods</b>	I used the appropriate mathematical method to answer this question. (I applied what was taught for this section.)	x																
	I SUCCESSFULLY used the appropriate mathematical method to answer this question. (I correctly applied what was taught for this section.)																	
<b>Evidence of Comprehension</b>	I <u>attempted</u> to support my work.	x	x	x	x													
	I <u>correctly</u> supported my work. If my answer was wrong, I may not have had a chance to change my answer, but I made it clear I knew I was wrong.																	
<b>Preparation</b>	I did work just like this for homework.	x	x	x	x	x	x	x	x									
	I did work like this for homework, and I checked it to make sure I was right.																	
	I did work like this for homework, I checked it, AND I posted it to my homework file.																	

Copy and paste your goals from the previous assessment (unless this is the first assessment of the year) below:

To better my future work I will practice the material I'm given every night while checking my work and posting it.

Answer each question with "yes" or "not really":

I did what I said I would do in my previous goals. \_\_\_\_\_nope

Following through with my goals helped me improve. \_\_\_\_\_nope



- Test Score 4-6 NDA Grade D
  - Routine/basic problems are not done correctly
  - Major gaps in logic and/or comprehension are clearly evident
  - Communication is lacking
  - Notation errors minimal/no attempt to apply conventions to written work
  
- Test Score 1-3 NDA Grade F
  - Forget to do it. Leave blank. Don't try.

Student perception of score on a 1-21 scale \_\_\_\_\_ 4 \_\_\_\_\_  
 (No partial points, please; 15.5 is not an acceptable score.)

Rubric rating submitted on: 11/28/2018, 1:53:30 PM by dguyette@notredameacademy.com

	100	99	98	97	96	95	94	93	91	89	87	85	83	81	79	76	73	69	65	59	52
S c o r e  Y o u r s c o r e: 69	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1

Comments: