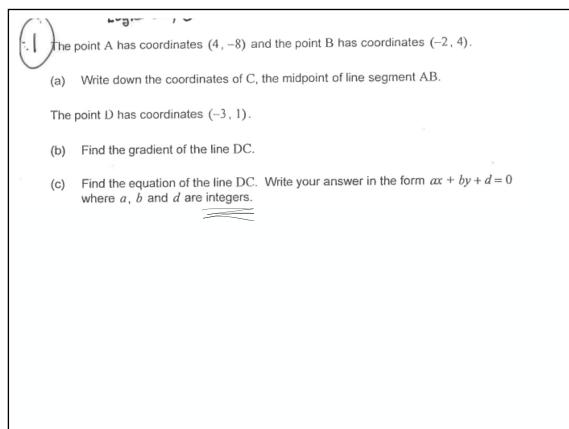


The point A has coordinates (4, -8) and the point B has coordinates (-2, 4).
(a) Write down the coordinates of C, the midpoint of line segment AB.
The point D has coordinates (-3, 1).
(b) Find the gradient of the line DC.
(c) Find the equation of the line DC. Write your answer in the form ax + by + d = 0 where a, b and d are integers.



a) CODEDINATES OF
the midpoint

$$(-2,4)$$
 $-\frac{2+4}{2} = \frac{2}{2} = 1$ $\frac{1--2}{-3-1} = \frac{1+2}{-4} = \frac{3}{4} \left(\frac{3}{4}\right)$
 $\frac{1--2}{-3-1} = -\frac{1+2}{-4} = \frac{3}{4} \left(\frac{3}{4}\right)$
 $\frac{1--2}{-3-1} = -\frac{1}{4} = \frac{3}{4} \left(\frac{3}{4}\right)$
 $\frac{1-3}{-3} \left(\frac{3}{4}\right)$
 $\frac{1-3}{-3} \left(\frac{3}{4}\right)$
 $\frac{1-3}{-4} = \frac{3}{4} \left(\frac{3}{4}\right)$
 $\frac{1-3}{-3} \left(\frac{3}{-4}\right)$
 $\frac{1-3}{-3} \left(\frac{3}{-4}\right)$
 $\frac{1-3}{-3} \left(\frac{3}{-4}\right)$
 $\frac{1-3}{-3} \left(\frac{3}{-4}\right)$
 $\frac{1-3}{-4} \left(\frac{3}{-4}\right)$
 $\frac{1$

$$\begin{pmatrix} 1 & -2 \\ 3 & 7 & -\frac{3}{4} \end{pmatrix}$$

$$y = mx + b \quad OR \quad y - y_{1} = m(x - x_{1})$$

$$-2 = \left(-\frac{3}{4}\right)(1) + b \qquad y + 2 = -\frac{3}{4}(x - 1)$$

$$-2 = -\frac{3}{4} + b$$

$$-8 = -3 + 9b$$

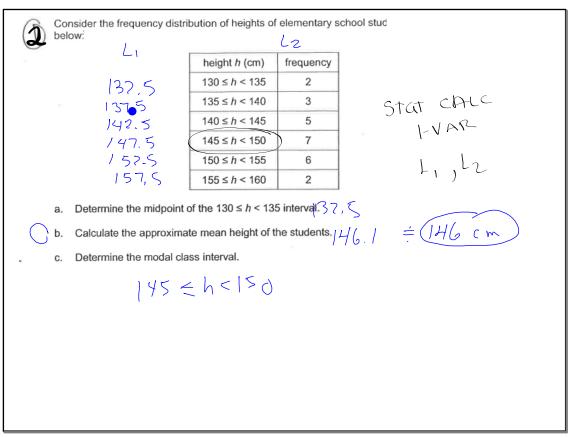
$$-5 = 4b \qquad y = -\frac{3}{4}x - \frac{5}{4}$$

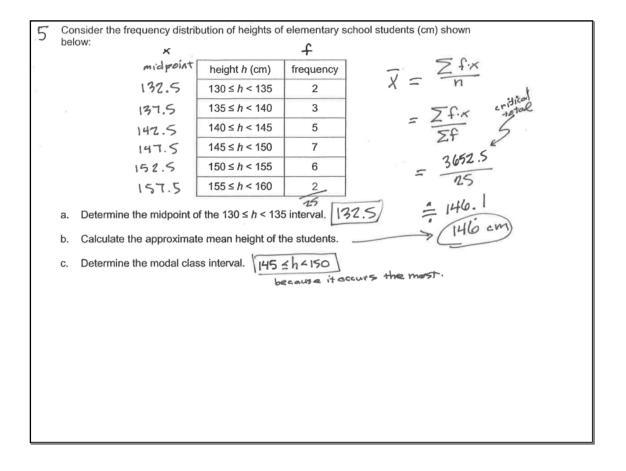
$$\frac{3}{4}x + y_{1} + \frac{5}{4} = 0$$

$$3x + 4y + 5 = 0$$

$$-3x - 4y - 5 = 0$$

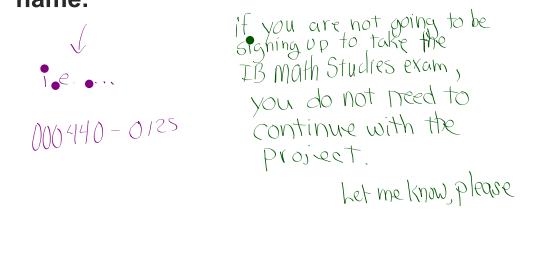
		height h (cm)	frequency		
	375	$130 \leq h < 135$	2		
		$135 \leq h < 140$	3		
		$140 \leq h < 145$	5		
		$145 \leq h < 150$	7		
		$150 \leq h < 155$	6		
		$155 \leq h < 160$	2		
с. С	etermine the modal cla	ss interval.			
				~	(

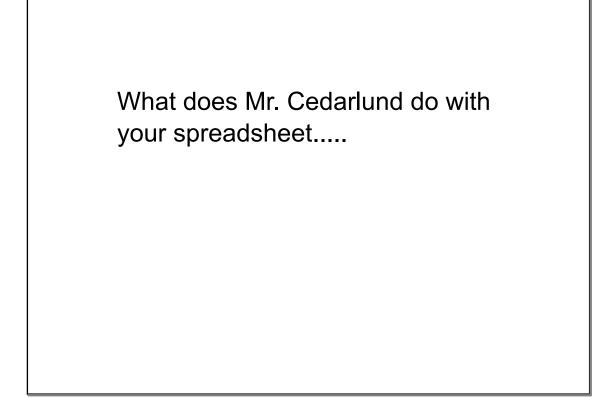


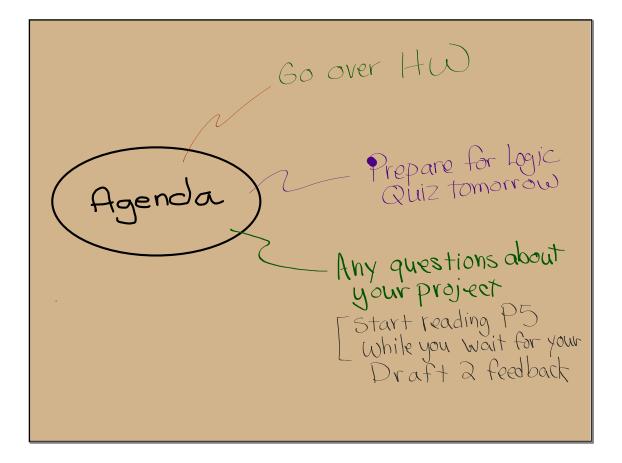


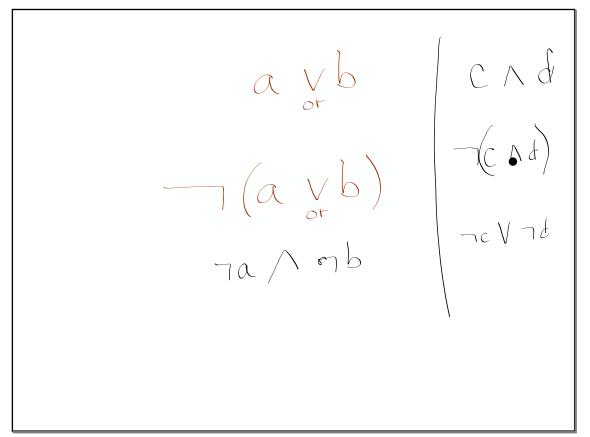
<u>Draft #2</u>

Be sure to include your IB registration number on Draft #2, next to your name.







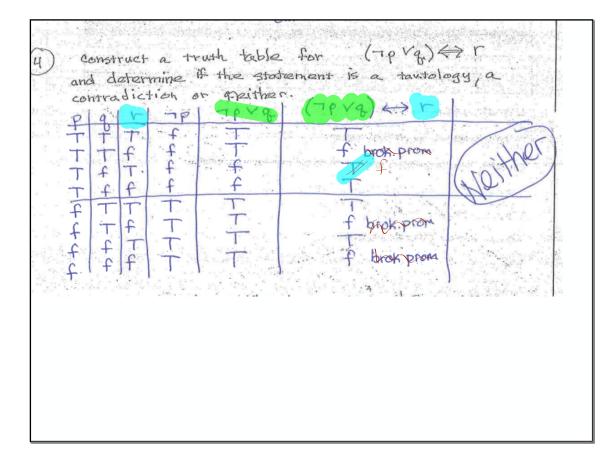


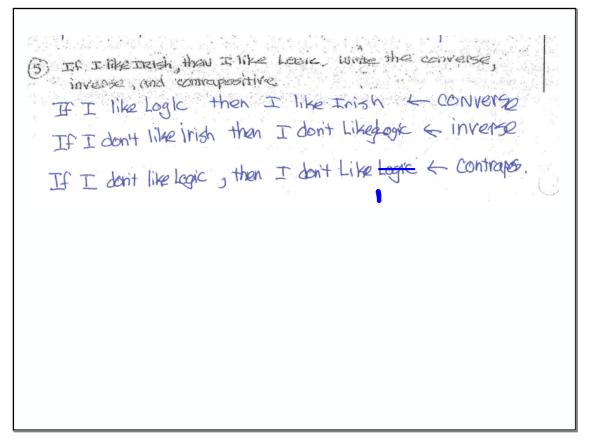
	-then it	is <u>not</u>		Sec. in Same
- 1	- 0			-
	17		8 ->-	19
Г., <u>А</u>	f	1.1.1	/f	
	f	<u></u>		
	and it		1	
-				1
itive of $q \Rightarrow \cdot$	¬p	·		× 5
	- *. *			
and a second sec	F T F itive of <i>q</i> ⇒	The stand of the		F T

3 propositions and truth tables L Considering the propositions, a, b and c and the compound statements a: a person achieves grade 7 in Mathematics b: a person achieves grade 7 in English c: a person has above average IQ write the following statements in words L al in math Or then he achieves 7 in English personhos 170 $c \Rightarrow (a \lor b)$ a achieve a 7 in math and doesn't achieve doesn DREEM with then he doesn't have I IQ $\neg(a \lor b) \Rightarrow$ er in 2 fablich

$\begin{array}{c} T \\ T \\ F \\$		-
		T
TIT T		+
		T
	TF AT	
	FT_F	

and the second s	and the first of the second state of the second	$b \wedge [a \wedge (b$	Strangelin and in the second second	
ab	1-7a	16	(b.v.7a) [an(byta)
TE	+	+	C	+ +
f T	1	4		4
F F		$\frac{1}{2} = \frac{1}{2} \left(\frac{1}{2} + 1$	and the second	f f
eset Maria Kanad		all f	abe so a con	tradictien <u></u>
		all f	ake se a con	tradictien <u></u>
		all f	abe se a con	tradictien <u></u>
		allf	abe se a con	tradictien <u></u>
		all f	ake se a con	tradictie <u>n</u>







Linking logical arguments is not included but there is a small video on arguments....

For the quiz tomorrow:

You can use the Formula Packet which has the basic truth tables listed

You will need to memorize the symbols and definitions of converse, inverse, and contrapositive.

 $\bigvee \ \not\perp \quad \rightarrow \quad \longleftrightarrow$ Know how to prove a tautology or a logical contradiction. Know how to prove two logical statements are logically equivalent

Available : Logic Practice with Answers

