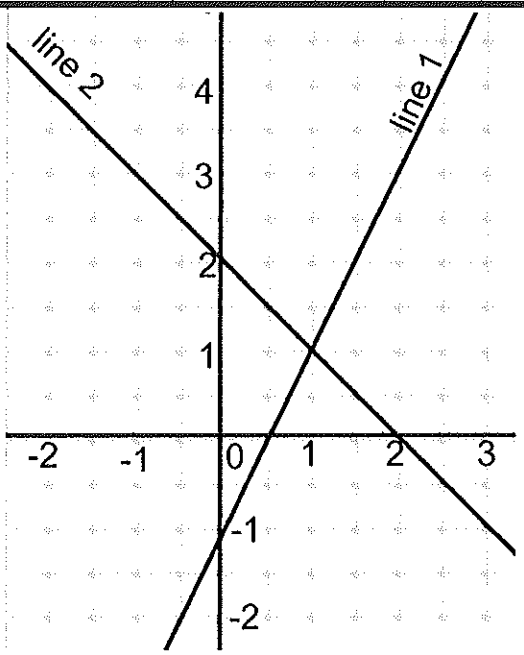
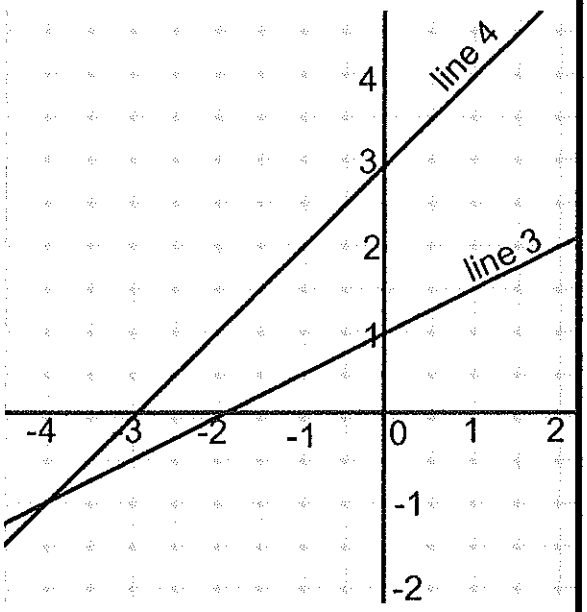
Mini Murder Mystery
Straight line graphs

One of the following 6 people has murdered one of the others.
Each has made 4 statements about these 2 graphs.
The murderer has made 3 errors, the victim made 0 errors.
The other suspects made 1 or 2 errors



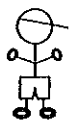


Claire says
- Line 1 is steeper than line 3
- Slope of line 3 is 0.5
- (1,0) is on line 3
- (2,3) is on line 1

Ashley says
- Slope of line 3 is 2
- (0.5, 0) is on line 1
- (4,-2) is on line 2
- Line 4 would be parallel to y = x

Duncan says
- Lines 1 & 2 are perpendicular
- The slope of line 4 is 3
- (0, -1) is on line 1
- Line 3 is steeper than line 4

Jack says
- The slope of line 2 is -1
- The slope of line 3 is 2
- (2,5) is on line 4
- (0,2) and (2,0) are both on line 2



Josh says
- Slope of line 1 is 2
- (-2,1) is on line 4
- (0,-3) is on line 4
- (-1,-4) is on lines 3 & 4

Lucy says
- The slope of line 4 is 1
- The slope of line 2 is -1
- The y intercept of Line 3 is 1
- (4,3) would be on line 3

Who?

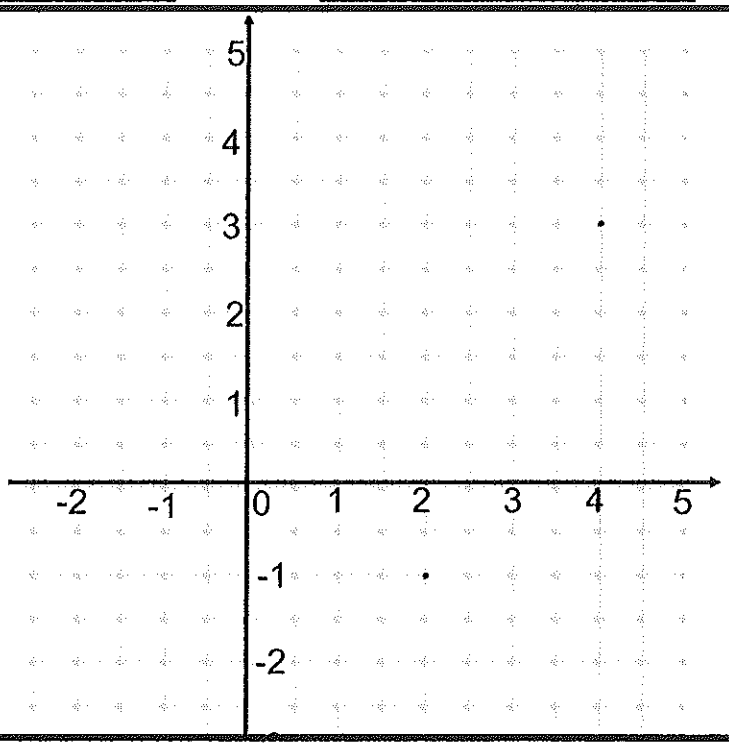
Accusation: _____ murdered _____

Where?

The murder took place at the coordinates described by the following.

Draw the line and think about coordinates on the line.

Mark your answer with a large "X"



- It is on the line y = 2x - 5
- The y coordinate is less than the x coordinate
- The sum of the coordinates is 8.5

Why? Solve the puzzle below to find out!

a	b	c	d	e
Slope of y = 2x-1	Slope of y = -9-4x	Slope of y = 5x+6	Slope of y = 3x+1	Slope of $y = 5 - \frac{1}{4}x$
f	**g**	**h**	**i**	**j**
Slope of y = 0.6x	Slope of y = x-1	Slope of y = 2-3x	Slope of y = 6x-7	Slope of y = 20x-10
k	**l**	**m**	**n**	**o**
Slope of y = -1.2x-1	Slope of $y = 10 - \frac{5}{2}x$	Slope of y = -2x+3	Slope of y = 0.5x+6	Slope of y =-12x+3

p	q	r	s	t
Slope of $y = -x+8$	Slope of $y = 8x-6$	Slope of $y = \frac{3}{2}x$	Slope of $y = 10x$	Slope of $y = 2.5x+3$
u	**v**	**w**	**x**	**y or z**
Slope of $y = 3$	Slope of $Y = 1-\frac{1}{2}x$	Slope of $y = -7x$	Slope of $y = 9x+10$	Slope of $y = 4x+5$

-4	$-\frac{1}{4}$	5	2	0	10	$-\frac{1}{4}$	10	-3	$-\frac{1}{4}$
6	10	10	4	-2	-2	$-\frac{1}{4}$	2.5	$1\frac{1}{2}$	6
5	2	-2.5							