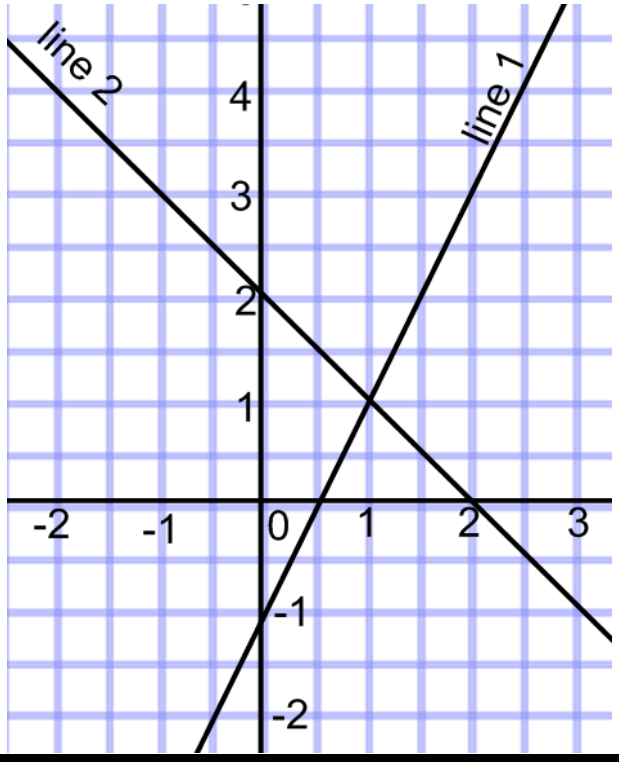
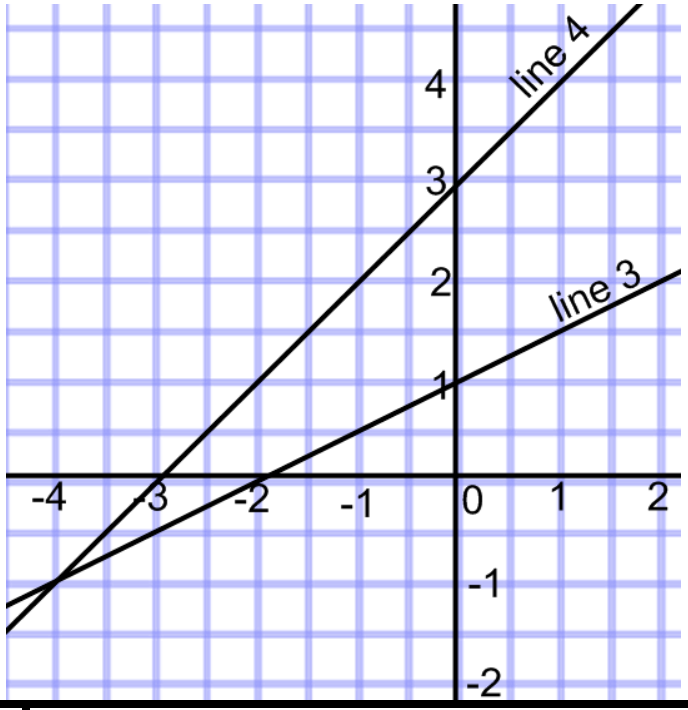
Mini Murder Mystery

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
- lines 1 and 2 intersect at (1,1)

Lucy says

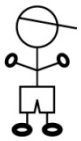
- The slope of line 4 is 1
- The slope of line 2 is -1
- The y intercept of Line 3 is 1
- (4,3) would be on line 3

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

Jack says

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



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

Ashley says

- Line 4 would be parallel to y = x
- (0.5,0) is on line 1
- (4,-2) is on line 2
- lines 3 and 4 intersect at (-1,-4)

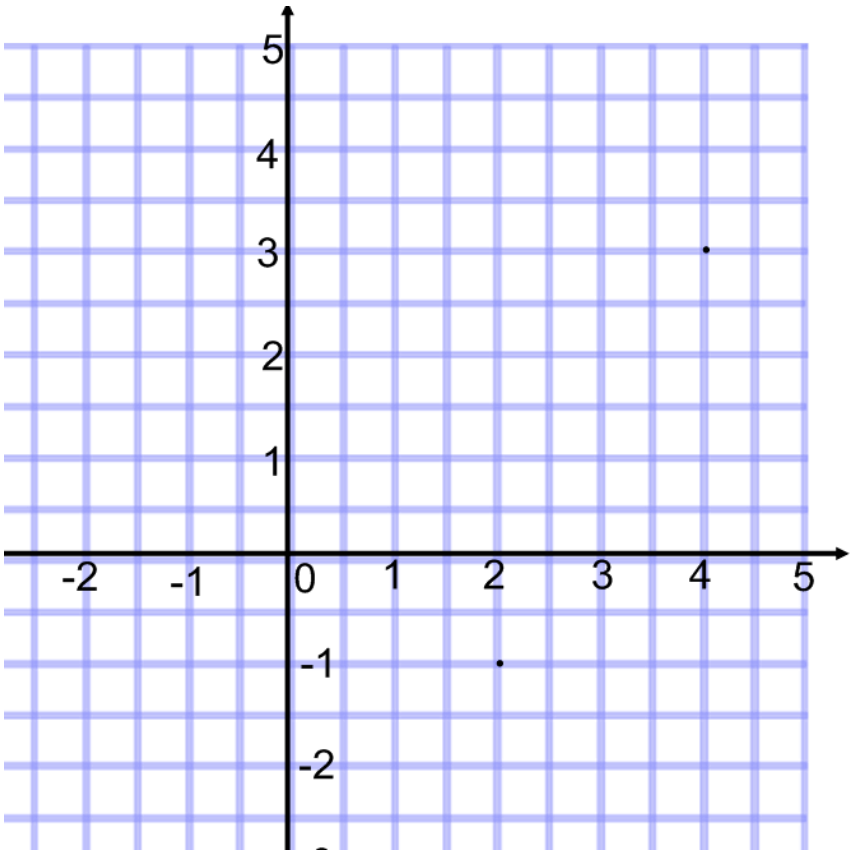
Accusation,,_____ murdered _____

Where?

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

- 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

Mark the murder place with a large "x"



Why?

Find the reason why the murder happened! Find the slopes and match the letter to your answers at the bottom of the page.

a	**b**	**c**	**d**	**e**
Slope of y = 2x-1	Slope of -4x – y = 9	Slope of y = 5x+6	Slope of y = 3x+1	Slope of y = $\frac{1}{4}$x+5
f	**g**	**h**	**i**	**j**
Slope of y = 0.6x	Slope of y = x-1	Slope of y =-3x+2	Slope of y = 6x-7	Slope of 10 = 20x-y
k	**l**	**m**	**n**	**o**
Slope of y = -1.2x	Slope of y = -2$\frac{1}{2}$x+5	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 6 = 8x-y	Slope of y= 1.5x-1	Slope of y = 10x	Slope of y = 2.5x+3
u	**V**	**w**	**x**	**y or z**
Slope of y = 3	Slope of y =-0.5x+1	Slope of y = -7x	Slope of y-37=9(x-3)	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							