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| **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 |
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| http://www.taracronica.com/wp-content/uploads/2010/09/stick-figure.jpgClaire says* Line 1 is steeper than line 3
* Gradient of line 3 is 0.5
* (1,0) is on line 3
* (2,3) is on line 1
 | http://dclips.fundraw.com/zobo500dir/professordenis_Kids_Sticks.jpgLucy says* The gradient of line 4 is 1
* The gradient of line 2 is -1
* The y intercept of Line 3 is 1
* (4,3) would be on line 3
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| http://school.discoveryeducation.com/clipart/images/stk-fgr5.gifDuncan says* Lines 1 & 2 are perpendicular
* The gradient of line 4 is 3
* (0, -1) is on line 1
* Line 3 is steeper than line 4
 | http://dclips.fundraw.com/zobo500dir/professordenis_Kids_Sticks.jpgJack says* The gradient of line 2 is -1
* (0,2) and (2,0) are both on line 2
* (2,5) is on line 4
* The gradient of line 3 is 2
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| http://www.utmb.edu/ERC/selfstud/jcahopted/stickman.gifJosh says* Gradient of line 1 is 2
* (-2,1) is on line 4
* (0,-3) is on line 4
* (-1,-4) is on lines 3 & 4
 | Ashley says* Line 4 would be parallel to y = x
* (0.5,0) is on line 1
* (4,-2) is on line 2
* http://mystuff.flux.me.uk/inc/images/stickman_waving_hc.gifGradient of line 3 is 2
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| **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 x coordinate is less than the y coordinate
* The sum of the coordinates is 8.5
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| **Why** |
| **a** | **b** | **c** | **d** | **e** |
| Grad of y = 2x-1 | Grad of y = -4x-9 | Grad of y = 5x+6 | Grad of y = 3x+1 | Grad of y = ¼x+5 |
| **f** | **g** | **h** | **i** | **j** |
| Grad of y = 0.6x | Grad of y = x-1 | Grad of y = -3x+2 | Grad of y = 6x-7 | Grad of y = 20x-10 |
| **k** | **l** | **m** | **n** | **o** |
| Grad of y = -1.2x-1 | Grad of y = -2½x+5 | Grad of y = -2x+3 | Grad of y = 0.5x+6 | Grad of y =-12x+3 |
| **p** | **q** | **r** | **s** | **t** |
| Grad of y = -x+8 | Grad of y = 8x-6 | Grad of y = 1.5x-1 | Grad of y = 10x | Grad of y = 2.5x+3 |
| **u** | **v** | **w** | **x** | **y or z** |
| Grad of y = 3 | Grad of y = -0.5x+1 | Grad of y = -7x | Grad of y = 9x+10 | Grad of y = 4x+5 |
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| **-4** | ¼ | 5 | 2 | 0 | 10 | ¼ | 10 | -3 | ¼ |
|  |  |  |  |  |  |  |  |  |  |
| **6** | 10 | 10 | 4 | -2 | -2 | ¼ | 2.5 | 1½ | 6 |
|  |  |  |  |  |  |  |  |  |  |
| 5 | 2 | -2.5 |  |  |  |  |  |  |  |
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