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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 | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | |
| 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 | | | | | | |
| 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 | | | | | | |
| 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 | | | | | | |
| **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** | | | | | | | | | | | | | | |
| **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 | |
|  | | | | | | | | | | | | | | |
| **-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 |  | |  |  | |  | |  |  | |  |
|  |  | |  |  | |  |  | |  | |  |  | |  |