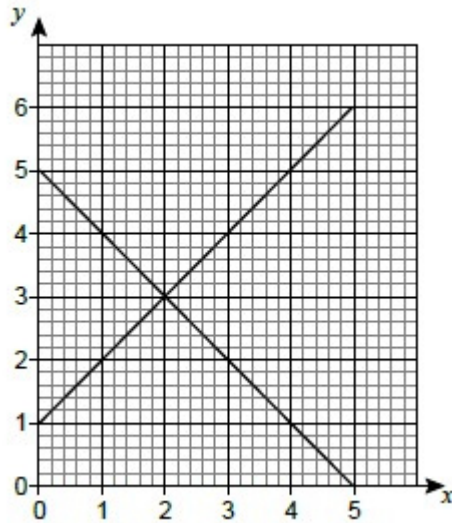


**M1.**

- (a) Straight line through  
 $(0, 1), (1, 2), (2, 3), (3, 4), (4, 5)$  and  $(5, 6)$



*B1 Two correct points plotted*

**B2**

- (b)  $x = 2$  and  $y = 3$   
*ft their linear graph from (a)*

**B1ft**

**[3]**

**M2.(a)** 90

**B1**

(b) 240

**B1**

(c) 410

**B1**

$150 + 6 \times 50$  or 450

*oe*

*450 – 410 is B1M1*

**M1**

A and 40

*ft their 410 (value indicated for law firm A)*

*A and 40 is B1M1A1*

**A1ft**

**Alternative method**

410

**B1**

Line from (90, 150) to (270, 450)

**M1**

A and 40

*ft their 410 (value indicated for law firm A)*

*A and 40 is B1M1A1*

**A1ft**

**[5]**

**M3.(a)**  $x = 2$

**B1**

(b) Correct straight line drawn

*at least 3 diagonal squares long*

**B1**

(c) 2, 2

*ft their intersection with line A only if B0 in part (b)*

**B1ft**

**[3]**

**M4.** Any two points of the form  $(x, 2x + 1)$  except  $(-2, -3)$  and  $(-4, -7)$

*B1 any one correct point*

**B2**  
**[2]**

**M5.(a)** -7

**B1**

5

**B1**

(b) At least 2 points correctly plotted  
*May be implied from a correct line*

**M1**

Straight ruled line drawn from -3 to 3

$\pm \frac{1}{2}$  square tolerance

**A1**  
**[4]**

**M6.**

(a)  $(2, 2)$

**B1**

(b) **Alternative method 1**

Draws line through their two correct points ~~and~~ crossing x

or

plots point on x-axis consistent for their two correct points

3.5, 0

*ft the two points not selected in (a)*

*SC1 0, 3.5*

**M1**

**A1ft**

**Alternative method 2**

$$2x (+ 0) = 7$$

3.5, 0

*SC1 0, 3.5*

**M1**

**A1**

**[3]**

**M7.(a)** -4, 2, 8

*B1 for two correct*

**B2**

(b) Two of their points plotted correctly

*ignore incorrect points*

**M1**

Fully correct straight ruled line from (-2, -4) to (2, 8)

**A1**

**Additional Guidance**

Lines must be clearly drawn with a ruled line

(c) 3

**B1**

**Additional Guidance**

$\frac{3}{1}$  on answer line is B1

[5]

**M8.(a)** Correct straight line at least 2 vertical squares in length

*If drawn without a ruler must be within  $\pm 1\text{mm}$  of the actual line*

B1

(b) Correct straight line at least two 'diagonals' in length

*If drawn without a ruler must be within  $\pm 1\text{mm}$  of the points (1, 1), (2, 2) etc*

*If the correct answers to both parts have been transposed, award B1 in this part*

B1

[2]

**M9.2** or 3 correct plots

*$\pm\frac{1}{2}$  square tolerance*

M1

Fully correct straight ruled line from (-3, -3) to (3, 9)

*$\pm\frac{1}{2}$  square tolerance*

A1

### **Additional Guidance**

2 or 3 correct points from (-3, -3) (-2, -1) (-1, 1) (0, 3) (1, 5) (2, 7) (3, 9) for the first M1

Ignore additional points

[2]

**M10.**

(a) 7 B1

(b) Points correctly plotted  
*ft from their table* M1

Correct line drawn for  $-1 \leq x$  A1

(c)  $y = 5$  drawn B1 [4]

**M11.**

(a)  $3 \times 4 (=12)$   
 $7 = 3x - 6$  M1

$12 - 6 = 6$   
 $x = 4.3$  A1

**Alternative 1**

Correct line from  $y = 3$  to  $y = 4$  M1

Correct line from  $y = 3$  to  $y = 4$  and plots (4, 7) or writes correct justification A1

**Alternative 2**

$3 \times 4 (= 12)$  M1

Line should be  $y = 3x - 5$  A1

(b)  $0 = 3x - 6$

2, 0

M1

A1

**Alternative**

Correct line from  $x = 1$  to  $x = 2$  or  
correct line from  $x = 2$  to  $x = 3$

M1

2, 0

A1

[4]

**M12.(a)** -5 -1 3

*B1 for 1 or 2 correct*

B2

(b) Fully correct line drawn

*B1ft at least 3 points plotted correctly (using their table)  
or B1 part of the correct line drawn*

B2

[4]

**M13.**intercepts at 1 and - 1

*oe eg 1 and (-) 1 marked on diagram*

B1

(y =) 7 (at B) and (y =) - 4 (at D)

*oe eg 7 and (-) 4 on diagram or in working*

B1

1 - - 1 (= 2) **or** 7 - - 4 (= 11)

*Using their coordinates*

M1

2 : 11 oe

A1

[4]

**M14.(a)** Correct straight (if not drawn with a ruler then intention to be straight) line graph from (0, -1) to (4, 7) with 1mm

*B2 correct line but not from (0, -1) to (4, 7) for at least a continuous x distance of 2.*

(½square) tolerance

*B2 all integer points (any others must also be correct) between 0 and 4 plotted but line not drawn*

Allow a dashed line

*B2 correct but more than ½ square from tolerance*

**Only one of these may be awarded.**

*B1 straight line graph through (0, -1) of any length even if crooked later but not  $x = 0$  or  $y = -1$*

*B1 Single straight line graph with gradient 2 of any length*

*B1 two correct points calculated (eg in table) or plotted*

*Any line that is not straight is B0 although the B1 for two points calculated or plotted may still be gained*

B3

(b) 1.5

*Correct (eg from algebra) or ft their graph if drawn to the graph and then a vertical line to x-axis*

B1

[4]

**M15.**

(a) 2

B1

(b) Plots their points

M1



Correct line

A1

(c) 2.5, 2.5

*ft if possible*

B1ft

[4]

**M16.**(a) -3, -1, 3

*B1 for 1 or 2 correct*

B2

(b) At least 2 of their 5 points plotted correctly

*May be implied from straight line  
 $\pm \frac{1}{2}$  square*

M1

Fully correct straight ruled line from - 2 to 2

*$\pm \frac{1}{2}$  square*

A1

[4]