

Mark Scheme (Results)

November 2018

Pearson Edexcel GCSE (9 – 1) In Mathematics (1MA1) Higher (Calculator) Paper 3H

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General marking guidance

These notes offer general guidance, but the specific notes for examiners appertaining to individual questions take precedence.

1 All candidates must receive the same treatment. Examiners must mark the last candidate in exactly the same way as they mark the first.

Where some judgement is required, mark schemes will provide the principles by which marks will be awarded; exemplification/indicative content will not be exhaustive. When examiners are in doubt regarding the application of the mark scheme to a candidate's response, the response should be sent to review.

All the marks on the mark scheme are designed to be awarded; mark schemes should be applied positively. Examiners should also be prepared to award zero marks if the candidate's response is not worthy of credit according to the mark scheme. If there is a wrong answer (or no answer) indicated on the answer line always check the working in the body of the script (and on any diagrams), and award any marks appropriate from the mark scheme.

Questions where working is not required: In general, the correct answer should be given full marks.

Questions that specifically require working: In general, candidates who do not show working on this type of question will get no marks – full details will be given in the mark scheme for each individual question.

3 Crossed out work

This should be marked **unless** the candidate has replaced it with an alternative response.

4 Choice of method

If there is a choice of methods shown, mark the method that leads to the answer given on the answer line.

If no answer appears on the answer line, mark both methods then award the lower number of marks.

5 Incorrect method

If it is clear from the working that the "correct" answer has been obtained from incorrect working, award 0 marks. Send the response to review for your Team Leader to check.

6 Follow through marks

Follow through marks which involve a single stage calculation can be awarded without working as you can check the answer, but if ambiguous do not award.

Follow through marks which involve more than one stage of calculation can only be awarded on sight of the relevant working, even if it appears obvious that there is only one way you could get the answer given.

7 Ignoring subsequent work

It is appropriate to ignore subsequent work when the additional work does not change the answer in a way that is inappropriate for the question or its context. (eq. an incorrectly cancelled fraction when the unsimplified fraction would gain full marks).

It is not appropriate to ignore subsequent work when the additional work essentially makes the answer incorrect (eg. incorrect algebraic simplification).

8 Probability

Probability answers must be given as a fraction, percentage or decimal. If a candidate gives a decimal equivalent to a probability, this should be written to at least 2 decimal places (unless tenths).

Incorrect notation should lose the accuracy marks, but be awarded any implied method marks.

If a probability fraction is given then cancelled incorrectly, ignore the incorrectly cancelled answer.

9 Linear equations

Unless indicated otherwise in the mark scheme, full marks can be gained if the solution alone is given on the answer line, or otherwise unambiguously identified in working (without contradiction elsewhere). Where the correct solution only is shown substituted, but not identified as the solution, the accuracy mark is lost but any method marks can be awarded (embedded answers).

10 Range of answers

Unless otherwise stated, when an answer is given as a range (e.g 3.5 – 4.2) then this is inclusive of the end points (e.g 3.5, 4.2) and all numbers within the range.

11 Number in brackets after a calculation

Where there is a number in brackets after a calculation E.g. 2×6 (=12) then the mark can be awarded **either** for the correct method, implied by the calculation **or** for the correct answer to the calculation.

12 Use of inverted commas

Some numbers in the mark scheme will appear inside inverted commas E.g. " $12'' \times 50$; the number in inverted commas cannot be any number – it must come from a correct method or process but the candidate may make an arithmetic error in their working.

13 Word in square brackets

Where a word is used in square brackets E.g. [area] \times 1.5 : the value used for [area] does **not** have to come from a correct method or process but is the value that the candidate believes is the area. If there are any constraints on the value that can be used, details will be given in the mark scheme.

14 Misread

If a candidate misreads a number from the question. Eg. uses 252 instead of 255; method or process marks may be awarded provided the question has not been simplified. Examiners should send any instance of a suspected misread to review.

Guidance on the use of abbreviations within this mark scheme

- **M** method mark awarded for a correct method or partial method
- **P** process mark awarded for a correct process as part of a problem solving question
- **A** accuracy mark (awarded after a correct method or process; if no method or process is seen then full marks for the question are implied but see individual mark schemes for more details)
- **C** communication mark awarded for a fully correct statement(s) with no contradiction or ambiguity
- **B** unconditional accuracy mark (no method needed)
- **oe** or equivalent
- cao correct answer only
- **ft** follow through (when appropriate as per mark scheme)
- **sc** special case
- **dep** dependent (on a previous mark)
- indep independent
- awrt answer which rounds to
- **isw** ignore subsequent working

| Paper: | Paper: 1MA1/3H | | | | | | |
|----------|----------------|--------------|------|---|---|--|--|
| Question | | Answer | Mark | Mark scheme | Additional guidance | | |
| 1 | (a) | 7360 | B1 | cao | | | |
| | (b) | 0.1077981356 | (B1 | for 0.1077(981) for 5.74(45626) or 53.29 or 0.11 or 0.107 or 0.108) | Answer must be given to at least 4 decimal places rounded or truncated Accept a clear indication of the decimal point. Check first four decimal places only | | |
| 2 | | 260 to 260.5 | M1 | for $883 - 245$ (=638) or $883 \div 245$ (=3.60) or $883 \div 245 \times 100$ (=360(.408)) oe for a complete method to find the percentage increase eg "638" \div 245 \times 100 (=260(.408)) or $883 \div 245 \times 100 - 100$ (=260(.408)) oe | | | |
| | | | A1 | Accept answers in the range 260 to 260.5 | | | |

| Paper: 1MA1 | Paper: 1MA1/3H | | | | | | |
|-------------|----------------|------|---|--|--|--|--|
| Question | Answer | Mark | Mark scheme | Additional guidance | | | |
| 3 (a) | 2, -4, 2, 8 | B2 | all 4 values correct | | | | |
| | | (B1 | for 2 or 3 correct values) | | | | |
| (b) | Graph | M1 | (dep B1) for at least 5 points plotted correctly ft from part a | | | | |
| | | A1 | for a fully correct curve drawn | Accept freehand curves drawn that are not line segments; there must be some attempt to draw the minimum point below $y = -4$ | | | |
| (c) | -2.6 or 1.6 | B1 | for 1 correct value, ft a non linear graph | Award for -2.6 or 1.6 or both values but do not award the mark if a correct value is given with an incorrect value. Accept 1.56 or -2.56 Note for ft to be applied if the graph may be joined by line segments | | | |

| Paper | Paper: 1MA1/3H | | | | | | | |
|--------|----------------|-----------|------|---|---|--|--|--|
| Questi | ion | Answer | Mark | Mark scheme | Additional guidance | | | |
| 4 | (a) | 5 | M1 | "2" ÷ 40×100 | "2" comes from their reading of the height of the | | | |
| | | | A1 | cao | 20 to 24 column | | | |
| | (b) | 9.5 shown | M1 | for frequencies of 11, 8, 13, 6 and 2 (allow one error) or for midpoints 2, 7, 12, 17 and 22 | May be seen on chart | | | |
| | | | M1 | for finding at least 4 products fx consistently within interval (including end points) | | | | |
| | | | M1 | for Σ " fx " ÷ ("11" + "8" + "13" + "6" + "2") or (11×2 + 8×7 + 13×12 + 6×17 + 2×22) ÷ 40 or Σ " fx " (=380) and 9.5 × ("11" + "8" + "13" + "6" + "2") (=380) | Evidence of two different calculations that should lead to 380 are required for this mark | | | |
| | | | C1 | for correct figures showing the answer or accurate figures to compare from correct working eg 380 from two calculations | | | | |

| Paper: 1MA1 | Paper: 1MA1/3H | | | | | | |
|-------------|----------------|------|---|--|--|--|--|
| Question | Answer | Mark | Mark scheme | Additional guidance | | | |
| 5 (a) | 2 mins 48 secs | P1 | for an appropriate first step eg 700 ÷ 475 (=1.47) or 475 ÷ [time] (= 4.16 m/s) or [time] ÷ 475 (= 0.24 s/m) | [time] what candidate indicates as time of first race Units are not needed and can be ignored if given | | | |
| | | P1 | for a complete method to find the required time eg $700 \div 475 \times [\text{time}] \ (=168)$ or $700 \div (475 \div [\text{time}]) \ (=168)$ or $[\text{time}] \div 475 \times 700 \ (=168)$ | Allow calculation in stages and appropriate rounding. | | | |
| (b) | Statement | C1 | eg takes less time Acceptable examples Quicker time Faster time Reduces my answer to part (a) Not acceptable examples It is an underestimate The amount of time could/may increase Laura goes faster | | | | |

| Paper: 1MA1 | /3H | | | |
|-------------|--------|------|--|--|
| Question | Answer | Mark | Mark scheme | Additional guidance |
| 6 | 17.3 | P1 | for full process to find either angle eg $(180 - 90) \div (2+3) \times 2 (=36)$ or for 36 or 54 seen as an angle | May be seen on diagram Condone correct values if incorrectly placed. |
| | | P1 | for a correct equation using trigonometry eg cos $[A] = 14 \div AB$ | This must be shown as an equation with all four elements (eg cos, $[A]$, 14, AB) present. $[A]$ could be 36 or any angle clearly and unambiguously identified as A . This also applies to $[B]$ with Sine. |
| | | P1 | (dep previous P mark) for rearranging their trigonometry equation to make AB the subject eg $(AB =)$ " $14 \div \cos 36$ " | |
| | | A1 | for an answer in the range 17.3 to 17.4 | If an answer is shown in the range in working and then incorrectly rounded award full marks. |
| | | | | |

| Paper: 1MA1 | 1/3H | | | |
|-------------|---------------|-----------|---|---|
| Question | Answer | Mark | Mark scheme | Additional guidance |
| 7 | Diagram drawn | B2 (B1 | for correct frequency polygon for points plotted at correct midpoints of intervals | Plotting at (5,14), (15,18), (25,26), (35,12) Must use line segments for B2 |
| | | | or joining points at correct heights consistently within intervals including plotting at end values | Joining must be with line segments |
| | | | or correct frequency polygon with one point incorrect | NB ignore any histogram drawn and any part of frequency polygon outside range of first and last points plotted |
| | | | or correct frequency polygon with first and last points joined directly) | |
| 8 | 8 | P1 | process to start the problem eg $xy = 45$ and $xz = 15$ and $yz = 27$ or 5×9 (=45) and 3×9 (=27) and 3×5 (=15) or 3, 5 and 9 stated | Maybe seen on diagram |
| | | P1 | for 3 × 5 × 9 (=135) or 2 of "9" ÷ 2.5 (=3.6) or "5" ÷ 2.5 (=2) or "3" ÷ 2.5 (=1.2) | |
| | | P1 | for 2.5 ³ (=15.625) or all of "9" ÷ 2.5 (=3.6) and "5" ÷ 2.5 (=2) and "3" ÷ 2.5 (=1.2) | |
| | | P1 | for a complete process to find the number of cubes possible eg [volume] ÷ "15.625" (=8.64) or "3.6" × "2" × "1.2" (=8.64) | [Volume] must come from multiplying together what they clearly indicate as the 3 dimensions of the cuboid. The three dimensions cannot be 45, 27 and 15 |
| | | A1 | cao | |

| Paper: 1MA | 1/3H | | | |
|------------|-------------------|------|---|--|
| Question | Answer | Mark | Mark scheme | Additional guidance |
| 9 (a) | $2x^3 + x^2 - 7x$ | M1 | for a method to find the product of two linear expressions eg 3 correct terms out of 4 terms or 4 terms ignoring signs | Note that (eg) $-x - 6$ in expansion of |
| | – 6 | | terms out of 4 terms of 4 terms ignoring signs | (x-2)(2x+3) is to be regarded as 3 correct |
| | | M1 | for a complete method to obtain all terms, half of which are correct (ft their first product) eg $2x^3 - x^2 - 6x + 2x^2 - x - 6$ | terms. First product must be quadratic but need not be simplified or may be simplified incorrectly |
| | | A1 | cao | |
| (b) | -5 | M1 | for beginning to combine indices eg $4+n$ or y^{-3+2} | |
| | | A1 | cao | |
| (c) | 1.27 and -0.472 | M1 | for substitution into the formula | Condone one sign error in the substitution Accept -4 ² or (-4) ² |
| | | M1 | for simplifying to the form $\frac{-b\pm\sqrt{N}}{k}$ eg $\frac{4\pm\sqrt{76}}{10}$ or 1.27 to 1.28 or -0.48 to -0.47 | |
| | | A1 | for 1.27 to 1.28 and -0.48 to -0.47 | |

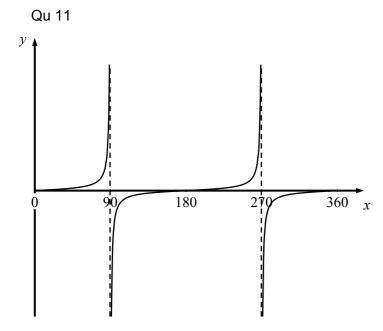
| Paper: 1MA1 | /3H | | | |
|-------------|-------------|-----------|--|---|
| Question | Answer | Mark | Mark scheme | Additional guidance |
| 10 (a) | 1.56 | B1 | 1.56 to 1.563 | |
| (b) | 3.63 | M1 | for a complete method to find fg(34) eg 4 sin 65(=3.625) or fg(x) eg 4 sin $(2x-3)$ | |
| | | A1 | for answer in the range 3.6 to 3.63 | If an answer in the range is seen in working and then incorrectly rounded award full marks. |
| (c) | Statement | C1 | for statement eg positive and negative square root required. Acceptable examples The other answer is -9 The quadratic should have 2 solutions. Not acceptable examples He has not expanded the brackets. He needed to $(x+4)$ twice as there is a squared sign. $(x+4)^2$ is 16 not 25. Didn't expand the bracket. | |
| 11 | Graph drawn | C2 (C1 | for fully correct sketch between 0° and 360° for a graph with clear asymptotes at 90° and 270° only or the correct graph translated along the <i>x</i> -axis must have a period of 180) | |

| Paper: 1MA1 | Paper: 1MA1/3H | | | | | | | |
|-------------|----------------------|------|---|---|--|--|--|--|
| Question | Answer | Mark | Mark scheme | Additional guidance | | | | |
| 12 | 73.6 | P1 | for correct initial use of Pythagoras eg $5^2 + 5^2$ (=50) or a trigonometric ratio in the form $\frac{5 \div 2}{0.5AC} = \sin 45$ oe | | | | | |
| | | P1 | for finding the length of half of the diagonal eg $\sqrt{"50"} \div 2 (= 3.5)$ or $0.5AC = \frac{5 \div 2}{\sin 45} (= 3.5)$ oe | do not accept $\sqrt{20} \div 2$ | | | | |
| | | P1 | for process to use tan eg tan $TAC = (12 \div "3.5")$ (=3.3) or complete alternative method arriving at an equation with the subject as $\sin TAC$ or $\cos TAC$ | | | | | |
| | | A1 | for an answer in the range 73.58 to 74.1 | | | | | |
| 13 | 408 | M1 | for 1.01 × 400 (= 404) or 408.04 or 412.08 | 412(.08) on the answer line M1A0 1.01 × 400 may be seen as part of a calculation | | | | |
| | | A1 | cao | | | | | |
| 14 | Evidence of solution | M1 | for constructing an equation eg $y \propto \frac{1}{x^3}$ or eg $y = \frac{k}{x^3}$ oe | | | | | |
| | | M1 | for substituting in the values a and 44 into $y = \frac{k}{x^3}$ | | | | | |
| | | C1 | for a complete method to use the equation, the value of k and $x = 2a$ to show $y = 5.5$ eg $(2a)^3y = 44a^3$ and $y = 44a^3 \div 8a^3 = 5.5$ | Must show all steps clearly | | | | |

| Paper: 1MA1 | /3H | | | |
|-------------|--------|------|---|---|
| Question | Answer | Mark | Mark scheme | Additional guidance |
| 15 | proof | C1 | for writing an expression for an odd number, eg $2n + 1$ or $2n - 1$ (assuming n is any integer) or states n is even and eg $(n + 1)$ or $(n + 3)$ as odd numbers | |
| | | C1 | for a correct expression of the form $(2n+1)^2 - (2n-1)^2$ expanded eg $4n^2 + 12n + 9 - (4n^2 + 4n + 1)$ or $4n^2 + 4n + 1 - (4n^2 - 4n + 1)$ or $(2n+1+2n-1)(2n+1-(2n-1))$ or when n is even and eg $(n^2+6n+9)-(n^2+2n+1)$ (=4 $n+8$) | Expansion of $(2n-1)^2 - (2n+1)^2$ oe is acceptable |
| | | C1 | for a correct simplified expression as a multiple of 8 eg $8n + 8$ or $8n$ or when n is even and eg $4n + 8$ and full explanation as to why $4(n+2)$ is always a multiple of 8 | |
| 16 | 39.9 | P1 | for finding the length of the minor or major arc eg $\frac{220}{360}\pi \times 12$ (= 23(.03834)) | Allow appropriate rounding if calculation seen in parts |
| | | P1 | for substituting into the sine or cosine rule to find OD eg $14 \div \sin 140 = OD \div \sin 24$ or $(OD^2=)$ $6^2 + 14^2 - 2 \times 6 \times 14 \times \cos 24$ (=78.5) | Must involve <i>OD</i> in the relationship but may be implied |
| | | P1 | for a complete process to find the length OD eg $14 \div \sin 140 \times \sin 24 \ (=8.8(58778))$ | |
| | | P1 | for a complete process to find the perimeter eg "23(.03834)" + 14+ "8.8(58778)" - 6 | May be seen in multiple calculations |
| | | A1 | for an answer in the range 39.8 to 40 | If an answer in the range is seen in working and then incorrectly rounded award full marks. |
| | | | | |

| Paper | Paper: 1MA1/3H | | | | | | |
|-------|----------------|--------------------|------|---|---|--|--|
| Quest | ion | Answer | Mark | Mark scheme | Additional guidance | | |
| 17 | (a) | Histogram drawn | B3 | for fully correct histogram eg relative heights 6, 3, 4, 2, 2 | | | |
| | | | (B2 | for 4 correct blocks or all 5 frequency ÷ class interval and 1 correct block) | | | |
| | | | (B1 | for at least 2 correct blocks of different widths or for frequency ÷ class interval for at least 3 frequencies) | | | |
| | (b) | 66 to 71 | M1 | indication of the median in the third interval or proportional method shown | Just stating the interval is sufficient for this mark May be implied by the number on the answer line | | |
| | | | A1 | ft answer between 66 and 71 | Median is at (approx.) 68.75 by a proportional method | | |
| 18 | | 2.7 with statement | B1 | for 179.5 or 180.5 or 180.4999 | | | |
| | | | B1 | for 486.5 or 487.5 or 487.4999 | | | |
| | | | P1 | for a correct process to find a bound for average speed, | | | |
| | | | | eg [upper bound of distance] \div [lower bound of time] where $487 < [\text{UB of distance}] \le 487.5$ and $179.5 \le [\text{LB of time}] < 180$ | | | |
| | | | | or for [lower bound of distance] \div [upper bound of time] where $486.5 \le$ [LB of distance] < 487 and $180 <$ [UB of time] ≤ 180.5 | | | |
| | | | A1 | (dep on all previous marks) for 2.695(2) and 2.715(8) with both values clearly coming from working with correct values | Accept bounds truncated or rounded to at least 4 sig fig | | |
| | | | C1 | for 2.7 from 2.695 and 2.715 and statement that both LB and UB round to 2.7 | | | |

| Paper: 1MA | 1/3H | | | |
|------------|---------------------------------------|----------|---|---|
| Question | Answer | Mark | Mark scheme | Additional guidance |
| 19 | $x = -\frac{23}{7}, y = \frac{15}{7}$ | M1 | for substitution of a rearrangement eg for $2(1 - 2y)^2 - y^2 = 17$ or $2x^2 - \left(\frac{1-x}{2}\right)^2 = 17$ or expansion of $(1 - 2y)^2 = 1 - 4y + 4y^2$ or $\left(\frac{1-x}{2}\right)^2 = \frac{1-2x+x^2}{4}$ | |
| | x = 3, y = -1 | M1 | for expansion of bracket and substitution eg $2(1-4y+4y^2)-y^2$ (= 17) or $8x^2-(1-2x+x^2)$ (= 68) for forming quadratic ready for solving eg $7y^2-8y-15$ (= 0) or $7x^2+2x-69$ (= 0) | |
| | | M1 | ft a 3 term quadratic, factorising eg $(7y-15)(y+1)$ (= 0) or $(7x+23)(x-3)$ (= 0) or correct use of formula eg $\frac{8\pm\sqrt{64+420}}{14}$ or $\frac{-2\pm\sqrt{4+1932}}{14}$ or completing the square | Can be implied by both x values correct or both y values correct. |
| | | A1 | $x = -\frac{23}{7}$ oe, $y = \frac{15}{7}$ oe and $x = 3, y = -1$ | Answers must be correctly paired. (Maybe in the body of the working) Accept for x between -3.29 and -3.28 and for y between 2.14 and 2.15 Answers only award 0 marks |
| 20 | (-3.5, 1) | M1 A1 | for a complete method to show the transformations cao | Image at (-4,1), (-3,1) and (-3.5, -2) |



Modifications to the mark scheme for Modified Large Print (MLP) papers. Paper 3H.

Only mark scheme amendments are shown where the enlargement or modification of the paper requires a change in the mark scheme.

The following tolerances should be accepted on marking MLP papers, unless otherwise stated below:

Angles: ±50

Measurements of length: ±5 mm

| PAPER: 1MA1_3H | | | | |
|----------------|---|---|--|--|
| Question | Modification | Mark scheme notes | | |
| 3 | Wording added 'There are four spaces to fill.' Table turned to vertical format. Grid enlarged. Y axis changed to go up in units of 2 from -10 to 10. | Standard mark scheme | | |
| 4 | Diagram enlarged. Right axis labelled. Shading changed to dotty shading. Axes labels moved to the left of the horizontal axis and above the vertical axis. | Standard mark scheme | | |
| 6 | Diagram enlarged. | Standard mark scheme | | |
| 7 | Diagram enlarged. Right axis labelled. Axes labels moved to the left of the horizontal axis and above the vertical axis. Frequency table changed to: 5, 20, 25, 10 and Frequency column widened. Question wording changed from 70 cars to 60 cars. | Standard mark scheme but plotting at (5,5), (15,20), (25,25), (35,10) | | |
| 8 | Diagram enlarged and model provided for all candidates. Wording added 'and on the model: 15 cm ² , 27cm ² , 45 cm ² ' | Standard mark scheme | | |

| PAPER: 1MA1_3H | | | | |
|----------------|-----|---|---|--|
| Question | | Modification | Mark scheme notes | |
| 9 | (a) | MLP only $-x$ changed to y . | Standard mark scheme with <i>x</i> changed to <i>y</i> . | |
| 9 | (b) | Wording added, 'when'. | Standard mark scheme | |
| 11 | | Diagram enlarged. | Standard mark scheme | |
| 12 | | Diagram enlarged and model provided for all candidates. A dot added at the centre of square <i>ABCD</i> , labelled <i>M</i> . A line added joining <i>A</i> to <i>M</i> and another line added joining <i>M</i> to <i>T</i> . An angle arc added at <i>A</i> . Question wording changed to 'The vertex <i>T</i> is 12 metres vertically above the midpoint <i>M</i> of <i>AC</i> .' | Standard mark scheme | |
| 16 | | Diagram enlarged. Shading changed to dotty shading. <i>AD</i> labelled 14 cm. Question wording changed to 'The shape is made from the triangle <i>AOD</i> and a sector of a circle, centre <i>O</i> and radius 6 cm.' | Standard mark scheme | |
| 17 | | Diagram enlarged. x axis marked in units of 25 (as shown). Table changed as shown below. Number of students changed from 570 to 575 | Standard mark scheme but histogram drawn at 7.5, 3.75, 5, 2.5, 2.5 Allow some tolerance on heights within gaps if intention is clear. Median at (approx.) 65.75 so allow within range 60 to 70. | |

| stion | Modification | Mark scheme notes |
|-------|-------------------|-------------------------|
| | | |
| | | den the frequency |
| | | umn to allow for rking. |
| | 25 < d ≤ 50 75 | |
| | 50 < d ≤ 75 100 | |
| | 75 < d ≤ 150 150 | |
| | 150 < d ≤ 200 100 | |
| | | |

| PAPER: 1MA | | Mark scheme notes |
|------------|---|---|
| 20 | Diagram enlarged and grid changed as shown below. Wording added, 'It shows triangle A, triangle B and triangle C on a grid. A cut out triangle is available if you wish to use it.' A cut out shape provided for all versions. Question wording changed as follows: (a) Describe the TWO transformations that map triangle A onto triangle B, then triangle B onto Triangle C. (1 mark). Three answer lines added for part (a). One point on triangle A is invariant under the combined transformation from triangle A to triangle C. (b) Find the coordinates of this point. (1 mark) | Part (a): award 1 mark for a full description of both transformations: A to B: a rotation of 180° about $(-1,0)$ B to C: a translation of $\begin{pmatrix} -3 \\ 2 \end{pmatrix}$ Do not award the mark if there is any ambiguity or any reference to other forms of transformation. Part (b): award 1 mark for $(-2.5, 1)$ |

