

Cambridge IGCSE™

ADDITIONAL MATHEMATICS**0606/22**

Paper 2

October/November 2025

MARK SCHEME

Maximum Mark: 80

Published

This mark scheme is published as an aid to teachers and candidates, to indicate the requirements of the examination. It shows the basis on which Examiners were instructed to award marks. It does not indicate the details of the discussions that took place at an Examiners' meeting before marking began, which would have considered the acceptability of alternative answers.

Mark schemes should be read in conjunction with the question paper and the Principal Examiner Report for Teachers.

Cambridge International will not enter into discussions about these mark schemes.

Cambridge International is publishing the mark schemes for the October/November 2025 series for most Cambridge IGCSE, Cambridge International A and AS Level components, and some Cambridge O Level components.

This document consists of **16** printed pages.

Generic Marking Principles

These general marking principles must be applied by all examiners when marking candidate answers. They should be applied alongside the specific content of the mark scheme or generic level descriptions for a question. Each question paper and mark scheme will also comply with these marking principles.

GENERIC MARKING PRINCIPLE 1:

Marks must be awarded in line with:

- the specific content of the mark scheme or the generic level descriptors for the question
- the specific skills defined in the mark scheme or in the generic level descriptors for the question
- the standard of response required by a candidate as exemplified by the standardisation scripts.

GENERIC MARKING PRINCIPLE 2:

Marks awarded are always **whole marks** (not half marks, or other fractions).

GENERIC MARKING PRINCIPLE 3:

Marks must be awarded **positively**:

- marks are awarded for correct/valid answers, as defined in the mark scheme. However, credit is given for valid answers which go beyond the scope of the syllabus and mark scheme, referring to your Team Leader as appropriate
- marks are awarded when candidates clearly demonstrate what they know and can do
- marks are not deducted for errors
- marks are not deducted for omissions
- answers should only be judged on the quality of spelling, punctuation and grammar when these features are specifically assessed by the question as indicated by the mark scheme. The meaning, however, should be unambiguous.

GENERIC MARKING PRINCIPLE 4:

Rules must be applied consistently, e.g. in situations where candidates have not followed instructions or in the application of generic level descriptors.

GENERIC MARKING PRINCIPLE 5:

Marks should be awarded using the full range of marks defined in the mark scheme for the question (however; the use of the full mark range may be limited according to the quality of the candidate responses seen).

GENERIC MARKING PRINCIPLE 6:

Marks awarded are based solely on the requirements as defined in the mark scheme. Marks should not be awarded with grade thresholds or grade descriptors in mind.

Mathematics-Specific Marking Principles

- 1 Unless a particular method has been specified in the question, full marks may be awarded for any correct method. However, if a calculation is required then no marks will be awarded for a scale drawing.
- 2 Unless specified in the question, non-integer answers may be given as fractions, decimals or in standard form. Ignore superfluous zeros, provided that the degree of accuracy is not affected.
- 3 Allow alternative conventions for notation if used consistently throughout the paper, e.g. commas being used as decimal points.
- 4 Unless otherwise indicated, marks once gained cannot subsequently be lost, e.g. wrong working following a correct form of answer is ignored (isw).
- 5 Where a candidate has misread a number or sign in the question and used that value consistently throughout, provided that number does not alter the difficulty or the method required, award all marks earned and deduct just 1 A or B mark for the misread.
- 6 Recovery within working is allowed, e.g. a notation error in the working where the following line of working makes the candidate's intent clear.

Annotations guidance for centres

Examiners use a system of annotations as a shorthand for communicating their marking decisions to one another. Examiners are trained during the standardisation process on how and when to use annotations. The purpose of annotations is to inform the standardisation and monitoring processes and guide the supervising examiners when they are checking the work of examiners within their team. The meaning of annotations and how they are used is specific to each component and is understood by all examiners who mark the component.

We publish annotations in our mark schemes to help centres understand the annotations they may see on copies of scripts. Note that there may not be a direct correlation between the number of annotations on a script and the mark awarded. Similarly, the use of an annotation may not be an indication of the quality of the response.

The annotations listed below were available to examiners marking this component in this series.

Annotations

Annotation	Meaning
A	More information required
A0	Accuracy mark awarded zero
A1	Accuracy mark awarded one
A2	Accuracy mark awarded two
A3	Accuracy mark awarded three
B0	Independent mark awarded zero
B1	Independent mark awarded one
B2	Independent mark awarded two
B3	Independent mark awarded three
BOD	Benefit of the doubt
C	Communication mark
X	Incorrect
FT	Follow through
Highlighter	Highlight a key point in the working
ISW	Ignore subsequent work
M0	Method mark awarded zero
M1	Method mark awarded one
M2	Method mark awarded two
M3	Method mark awarded three

Annotation	Meaning
MR	Misread
O	Omission
Off-page comment	Allows comments to be entered at the bottom of the RM marking window and then displayed when the associated question item is navigated to.
On-page comment	Allows comments to be entered in speech bubbles on the candidate response.
Pre	Premature rounding/approximation
SC	Special case
SEEN	Indicates that work/page has been seen
TE	Transcription error
	Correct
XP	Correct answer from incorrect working

MARK SCHEME NOTES

The following notes are intended to aid interpretation of mark schemes in general, but individual mark schemes may include marks awarded for specific reasons outside the scope of these notes.

Types of mark

M Method marks, awarded for a valid method applied to the problem.

A Accuracy mark, awarded for a correct answer or intermediate step correctly obtained. For accuracy marks to be given, the associated Method mark must be earned or implied.

B Mark for a correct result or statement independent of Method marks.

When a part of a question has two or more ‘method’ steps, the M marks are in principle independent unless the scheme specifically says otherwise; and similarly where there are several B marks allocated. The notation ‘dep’ is used to indicate that a particular M or B mark is dependent on an earlier mark in the scheme.

Abbreviations

awrt	answers which round to
cao	correct answer only
dep	dependent
FT	follow through after error
isw	ignore subsequent working
nfww	not from wrong working
oe	or equivalent
rot	rounded or truncated
SC	Special Case
soi	seen or implied

Question	Answer	Marks	Guidance
1(a)	Eliminates one unknown: e.g. $4x - 3 = 3 + 5x - 2x^2$	M1	
	Writes in solvable form: $2x^2 - x - 6 [= 0]$ or $-2x^2 + x + 6 [= 0]$	A1	
	Solves or factorises <i>their</i> 3-term quadratic e.g. $(2x + 3)(x - 2)$	M1	dep previous M1
	$(-1.5, -9) (2, 5)$	A1	

Question	Answer	Marks	Guidance
1(b)	<p>Equation of <i>their</i> perpendicular bisector soi:</p> $y + 2 = -\frac{1}{4}\left(x - \frac{1}{4}\right)$ <p>or $y = -\frac{1}{4}x - \frac{31}{16}$ oe, isw</p>	M3	<p>FT <i>their</i> midpoint and perpendicular gradient from correct use of <i>their</i> $(-1.5, -9)$ and <i>their</i> $(2, 5)$</p> <p>M1 FT for midpoint: $\left(\frac{\text{their}(-1.5) + \text{their}2}{2}, \frac{\text{their}(-9) + \text{their}5}{2}\right)$ or $(0.25, -2)$</p> <p>M1 FT for perpendicular gradient: $m_{\perp} = \frac{-1}{\text{their}(-9) - \text{their}5} \text{ oe or } -\frac{1}{4}$ $\text{their}(-1.5) - \text{their}2$</p> <p>OR</p> <p>M1 FT <i>their</i> $(-1.5, -9)$ and <i>their</i> $(2, 5)$ for $(x-2)^2 + (y-5)^2 = (x+1.5)^2 + (y+9)^2$ soi</p> <p>M1 FT <i>their</i> $(-1.5, -9)$ and <i>their</i> $(2, 5)$ for expanding $x^2 + y^2 - 4x - 10y + 29 =$ $x^2 + y^2 + 3x + 18y + 83.25$ soi</p>
	$\frac{961}{128}$ isw or 7.51 or 7.507 to 7.508 oe cao	A2	not from wrong coordinates A1 for sight or use of e.g. $\left(-\frac{31}{4}, 0\right)$ and $\left(0, -\frac{31}{16}\right)$ nfww or $x = -\frac{31}{4}$ and $y = -\frac{31}{16}$ nfww or $x = \frac{31}{4}$ and $y = \frac{31}{16}$ nfww

Question	Answer	Marks	Guidance
2(a)	Complete and correct method e.g.: $\pi - 2\sin^{-1}\left(\frac{1}{3}\right)$ or $\pi - \cos^{-1}\left(\frac{7}{9}\right)$ or $3.142 - 0.6796\dots$ oe or $2\cos^{-1}\left(\frac{2}{6}\right)$ or $2 \times 1.2309\dots$ oe or $\cos^{-1}\left(\frac{36+36-128}{2(6)(6)}\right)$ or $\cos^{-1}\left(-\frac{7}{9}\right)$ oe	M2	M1 for a correct useful angle or implicit calculation for angle AOB e.g. angle $BOC = 2\sin^{-1}\left(\frac{1}{3}\right)$ or $0.6796\dots$ or $\cos^{-1}\left(\frac{36+36-16}{2(6)(6)}\right)$ or $\cos^{-1}\left(\frac{7}{9}\right)$ or half angle $BOC = \sin^{-1}\left(\frac{1}{3}\right)$ or $0.339\dots$ or half angle $AOB = \cos^{-1}\left(\frac{2}{6}\right)$ or $\sin^{-1}\left(\frac{4\sqrt{2}}{6}\right)$ or $1.230\dots$ or $128 = 36 + 36 - 2(6)(6)\cos AOB$ oe
	2.46 or 2.461 to 2.462[...]	A1	
2(b)(i)	$6 \times \text{their } 2.46$ soi	M1	FT <i>their</i> 2.46 providing it is less than 2π
	37.5 or 37.52 to 37.55	A1	

Question	Answer	Marks	Guidance
2(b)(ii)	$\frac{1}{2} \times 6^2 \times \text{their 2.46} \text{ or } \left[2 \times \frac{1}{2} \times \right] (6^2 \times \text{their 2.46})$ <p>OR</p> $\frac{1}{2} \times 6^2 \times \text{their 0.68}[0] \text{ or } \left[2 \times \frac{1}{2} \times \right] (6^2 \times \text{their 0.68}[0])$	M1	FT <i>their 2.46</i> providing it is less than 2π
	<p>Correct plan e.g. :</p> <p>2 sectors + 2 triangles</p> $\left[2 \times \frac{1}{2} \times \right] (6^2 \times \text{their 2.46}) + \left[2 \times \frac{1}{2} \times \right] (6^2 \times \sin \text{their BOC})$ <p>or</p> $\left[2 \times \frac{1}{2} \times \right] (6^2 \times \text{their 2.46}) + \left[2 \times \frac{1}{2} \times \right] (6^2 \times \sin \text{their 2.46})$ <p>or</p> $\left[2 \times \frac{1}{2} \right] (6^2 \times \text{their 2.46}) + \left(\frac{1}{2} \times 4 \times \text{their AB} \right) \text{ oe}$ <p>or 2 segments + 1 rectangle</p> $\left[2 \times \frac{1}{2} \times \right] 6^2 (\text{their 2.46} - \sin \text{their 2.46}) + 4 \times \text{their AB} \text{ oe}$ <p>OR</p> <p>whole circle radius 6 – 2 segments cut off by <i>AD</i> and <i>BC</i></p> $\pi \times 6^2 - \left[2 \times \frac{1}{2} \times \right] 6^2 (\text{their BOC} - \sin \text{their BOC})$	M1	dep previous M1
	111 or 111.2 to 111.3	A1	
3	$2^{10} + 10 \times 2^9 \times \frac{3}{x^2} + 45 \times 2^8 \times \left(\frac{3}{x^2} \right)^2 \text{ oe, soi}$ <p>and</p> $1 - 8x^2 + 16x^4 \text{ soi}$	B3	B2 for $2^{10} + 10 \times 2^9 \times \frac{3}{x^2} + 45 \times 2^8 \times \left(\frac{3}{x^2} \right)^2 \text{ oe, soi}$ <p>or</p> B1 for two correct terms in $2^{10} + 10 \times 2^9 \times \frac{3}{x^2} + 45 \times 2^8 \times \left(\frac{3}{x^2} \right)^2 \text{ oe, soi}$ B1 for $1 - 8x^2 + 16x^4$
	$2^{10} + \text{their 15360} \times \text{their } (-8) + \text{their 103680} \times \text{their 16}$	M2	FT <i>their</i> expansions for M2 or M1 M1 FT for any two correct terms in this sum
	1 537 024	A1	

Question	Answer	Marks	Guidance
4(a)	$e^y = mx^3 + c$ soi	B1	
	Correct method to find m e.g. $\frac{13.5 - 0.5}{1 - 7.5}$ or $13 = -6.5m$	M1	
	OR		
	$m = -2$ soi		
	Correct method to find c e.g. $13.5 = \text{their}(-2) [1] + c$ oe or $0.5 = \text{their}(-2)(7.5) + c$ oe or $0.5 = 7.5(13.5 - c) + c$ oe	M1	
4(b)	OR		
	$c = 15.5$ soi		
4(b)	$y = \ln(15.5 - 2x^3)$ mark final answer	A1	
5(a)	$x < \sqrt[3]{7.75}$ oe, nfww	2	M1 FT for $15.5 - 2x^3 > 0$ oe, soi; FT $a + bx^3 > 0$ from $y = \ln(a + bx^3)$
5(b)	665 280	B1	
5(c)	30 240	2	M1 for $3 \times 10 \times 9 \times 8 \times 7 \times 2$ oe
5(c)	26 880	2	B1 for a final answer of 13 440 or M1 for $2 \times 3 \times 4 \times 8 \times 7 \times 5 \times 4$ oe
6	All through this question allow correctly written vectors in $\mathbf{i} \ \mathbf{j}$ form but, incorrectly written column vectors e.g. $\begin{pmatrix} 10\mathbf{i} \\ -24\mathbf{j} \end{pmatrix}$ do not earn full marks unless the correct form is recovered		
6(a)	$\begin{pmatrix} 10 \\ -24 \end{pmatrix}$ oe, isw	2	B1 for the magnitude of the direction vector is 13 soi or M1 for $\sqrt{5^2 + (-12)^2}$ oe or M1 for $\begin{pmatrix} 26\cos1.18 \\ -26\sin1.18 \end{pmatrix}$ oe
6(b)	$\begin{pmatrix} 3 \\ 6 \end{pmatrix} + t \begin{pmatrix} 10 \\ -24 \end{pmatrix}$ oe, isw	2	M1 FT for $\begin{pmatrix} 3 \\ 6 \end{pmatrix} + t \begin{pmatrix} \text{their} \\ -24 \end{pmatrix}$ FT <i>their</i> velocity vector

Question	Answer	Marks	Guidance
6(c)	$\begin{pmatrix} 3+10t \\ 6-24t \end{pmatrix} - \begin{pmatrix} 8t-5 \\ 2-25t \end{pmatrix} \text{ oe or } \begin{pmatrix} 8+2t \\ 4+t \end{pmatrix} \text{ oe, soi}$	B1	or $\begin{pmatrix} 8t-5 \\ 2-25t \end{pmatrix} - \begin{pmatrix} 3+10t \\ 6-24t \end{pmatrix} \text{ or } \begin{pmatrix} -8-2t \\ -4-t \end{pmatrix} \text{ oe soi}$
	Finds d^2 or d for $\begin{pmatrix} \text{their} \begin{pmatrix} 3+10t \\ 6-24t \end{pmatrix} \end{pmatrix} - \begin{pmatrix} 8t-5 \\ 2-25t \end{pmatrix}$ or $\begin{pmatrix} 8t-5 \\ 2-25t \end{pmatrix} - \begin{pmatrix} \text{their} \begin{pmatrix} 3+10t \\ 6-24t \end{pmatrix} \end{pmatrix} \text{ oe, soi}$	M1	FT $\begin{pmatrix} 3 \\ 6 \end{pmatrix} + t \begin{pmatrix} 10 \\ -24 \end{pmatrix}$
	$d^2 = 5t^2 + 40t + 80$ mark final answer	A1	
6(d)	Correct argument including d e.g. When $d = 0 \rightarrow t = -4$, but $t \geq 0$ [so no collision] or When $t = -4 \rightarrow d = 0$, but $t \geq 0$ [so no collision] or $d > 0$ when $t \geq 0$ so $d \neq 0$ [so no collision]	B1	dep on part (c) being correct
7(a)	[1] $\cos 2x + x(-2 \sin 2x)$ oe, isw, nfww	2	M1 for $\frac{d}{dx}(\cos 2x) = -2 \sin 2x$ soi or M1 FT for correct structure of product rule FT $\text{their}(-2 \sin 2x)$

Question	Answer	Marks	Guidance
7(b)	$-\frac{1}{2}x\cos 2x + \frac{1}{4}\sin 2x + c$ oe, isw, nfww	4	<p>M3 for $-\frac{1}{2}x\cos 2x + \frac{1}{4}\sin 2x$ or for $-2\int x\sin 2x \, dx = x\cos 2x - \frac{1}{2}\sin 2x + c$ or for $-\frac{1}{2}x\cos 2x + k\sin 2x + c$, where $k > 0$ oe,</p> <p>or M2 for $-2\int x\sin 2x \, dx = x\cos 2x - \frac{1}{2}\sin 2x$ or for $-\frac{1}{2}x\cos 2x + k\sin 2x$, where $k > 0$, or for $\int x\sin 2x \, dx = -\frac{1}{2}x\cos 2x + \int \frac{1}{2}\cos 2x \, dx$ oe,</p> <p>or M1 for $-2\int x\sin 2x \, dx = x\cos 2x - \int \cos 2x \, dx$ or $2\int x\sin 2x \, dx = -x\cos 2x + \int \cos 2x \, dx$ or $x\cos 2x = \int \cos 2x \, dx + \int -2x\sin 2x \, dx$ oe, soi</p>

Question	Answer	Marks	Guidance
8(a)	At least two correct terms from: $t + 4.5 \quad t + 10.5 \quad t + 28.5$ soi	B1	condone a for t
	$r = \frac{t + 10.5}{t + 4.5}$ or $r = \frac{t + 28.5}{t + 10.5}$ or $r^2 = \frac{t + 28.5}{t + 4.5}$ oe	M1	FT <i>their</i> distinct terms of the form $t + 1.5k$ where k is a positive integer
	$\frac{t + 10.5}{t + 4.5} = \frac{t + 28.5}{t + 10.5}$ oe	A1	or $(t + 4.5) \times \frac{t + 28.5}{t + 10.5} = t + 10.5$ oe
	Clears algebraic fractions and expands e.g. $t^2 + 21t + 110.25 = t^2 + 33t + 128.25$	A1	must be seen
	-1.5 oe nfww	A1	and no other values dep on all previous marks awarded
	Alternative method		
	At least two correct terms from: $t + 4.5 \quad t + 10.5 \quad t + 28.5$ soi	(B1)	
	One correct equation in a and r e.g. $a - 4.5 = ar - 10.5$ or $ar - 10.5 = ar^2 - 28.5$ or $a - 4.5 = ar^2 - 28.5$ oe	(M1)	FT <i>their</i> distinct terms of the form $t + 1.5k$ where k is a positive integer
	Correct equation in r e.g. $\frac{6}{r-1} = \frac{18}{r(r-1)}$ OR $\frac{18}{r^2-r} - 4.5 = \frac{18r}{r^2-r} - 10.5$	(A1)	OR correct equation in a e.g. $a + 24 = a \left(\frac{a+6}{a} \right)^2$
	$[6r = 18]r = 3$ OR $18 - 4.5(r^2 - r) = 18r - 10.5(r^2 - r)$ and e.g. $t = \frac{18r}{r^2-r} - 10.5$ or $a = 3$	(A1)	must be seen OR $a^2 + 24a = a^2 + 12a + 36$ and $a = 3$
	-1.5 oe nfww	(A1)	and no other values dep on all previous marks awarded
8(b)	3 nfww	2	and no other values M1 for $\frac{\text{their}(-1.5) + \text{their}10.5}{\text{their}(-1.5) + \text{their}4.5}$ oe or for $\frac{\text{their } a + \text{their}10.5 - \text{their}4.5}{\text{their } a}$ oe or for $\frac{\text{their}28.5 - \text{their}10.5}{\text{their}(-1.5) + \text{their}10.5} + 1$ oe FT <i>their</i> t providing <i>their</i> $t \neq 0$ or <i>their</i> a providing <i>their</i> $a \neq 0$ or 1

Question	Answer	Marks	Guidance
9(a)	$-\frac{5}{2}$ oe	B1	
9(b)	$f \in \mathbb{R}$ oe	B1	
9(c)	$\ln(2(x^2 + 1) + 5) [=4]$ oe, soi	B1	
	$2(x^2 + 1) + 5 = e^4$ or <i>their</i> $(2x^2 + 7) = e^4$	M1	
	$x = \pm \sqrt{\frac{e^4 - 7}{2}}$ or exact equivalent	A1	
	Alternative method		
	Solves $\ln(2x + 5) = 4$ to find $x = \frac{e^4 - 5}{2}$ and states $g(x) = \frac{e^4 - 5}{2}$ OR finds $f^{-1}(x) = \frac{e^x - 5}{2}$ and states $g(x) = \frac{e^4 - 5}{2}$	(2)	M1 for solving $f(x) = 4$ to find $x = k$ and states $g(x) = k$, where k is a constant OR for stating $g(x) = f^{-1}(4)$
	$x^2 + 1 = \frac{e^4 - 5}{2} \rightarrow x = \pm \sqrt{\frac{e^4 - 5}{2} - 1}$ or exact equivalent	(A1)	

Question	Answer	Marks	Guidance
10	Writes as a 3-term quadratic in e^x in solvable form: $3e^{2x} + 5e^x - 2 = 0$ soi	M1	condone one sign or arithmetic error
	Solve or factorises <i>their</i> 3-term quadratic in e^x	M1	dep previous M1
	$e^x = \frac{1}{3}$ or $e^x = 0.333[3\dots]$ $[e^x = -2]$	A1	
	$x = \ln \frac{1}{3}$ or $-\ln 3$ only solution, nfww	A1	must be exact value, but ignore decimal if also stated
	Correct plan: $\int_{\ln \frac{1}{3}}^0 (3e^{2x} + 5e^x - 2) dx$ OR $\int_{\ln \frac{1}{3}}^0 (2 + 5e^x) dx - \int_{\ln \frac{1}{3}}^0 (4 - 3e^{2x}) dx$ soi	M1	dep on use of $2 + 5e^x = 4 - 3e^{2x}$ to find the lower limit
	$\frac{3}{2}e^{2x} + 5e^x - 2x$ OR $(2x + 5e^x)$ and $\left(4x - \frac{3}{2}e^{2x}\right)$	B2	B1 for $\left[\int 3e^{2x} dx = \frac{3}{2}e^{2x}\right]$ soi B1 for all other terms correct
	$\frac{3}{2} + 5 - \left(\frac{3}{2}e^{2\ln \frac{1}{3}} + 5e^{\ln \frac{1}{3}} - 2\ln \frac{1}{3}\right)$ OR $5 - \left(2\ln \frac{1}{3} + 5e^{\ln \frac{1}{3}}\right)$ OR $-\frac{3}{2} - \left(4\ln \frac{1}{3} - \frac{3}{2}e^{2\ln \frac{1}{3}}\right)$ oe	M1	FT correct substitution of limits 0 and k where k is exact into $ae^{2x} + be^x + cx$ or $ae^x + bx$ or $ae^{2x} + bx$ at least once, providing limits are consistent
	$\frac{14}{3} - 2\ln 3$ dep on all previous marks awarded	2	M1 dep on correct plan for one correct term out of two or for $a + 2\ln \frac{1}{3}$ with constant a
11(a)	$[\tan 2x = 0 \rightarrow]$ Any two of $2x = 0, 180, 360$	M1	
	$[x =]$ 0, 90, 180 nfww and no extras from $\tan 2x = 0$ in range $0 \leq x \leq 180$	A1	
	$[\tan 2x = 4 \rightarrow]$ $2x = 75.96\dots$ or $255.96\dots$	M1	
	38 [.0] or 37.98[18...] isw 128 [.0] or 127.98[18...] isw and no extras from $\tan 2x = 4$ in range $0 \leq x \leq 180$	A1	

Question	Answer	Marks	Guidance
11(b)	$\sin(y + 1.2) = \frac{1}{4}$	B1	
	Two correct values for $y + 1.2$ soi $y + 1.2 = 0.2526[80\dots]$ $y + 1.2 = \pi - 0.2526[80\dots]$ or $2.888[91\dots]$ $y + 1.2 = -\pi - 0.2526[80\dots]$ or $-3.394[27\dots]$ soi	M2	M1 for any one correct value for $y + 1.2$
	-0.947 or -0.9473[19\dots] isw 1.69 or 1.688[91\dots] isw -4.59 or -4.594[27\dots] isw and no others in range $-5 < y < 2$	A3	A2 for two correct angles, ignoring extras in range or A1 for one correct angle, ignoring extras in range