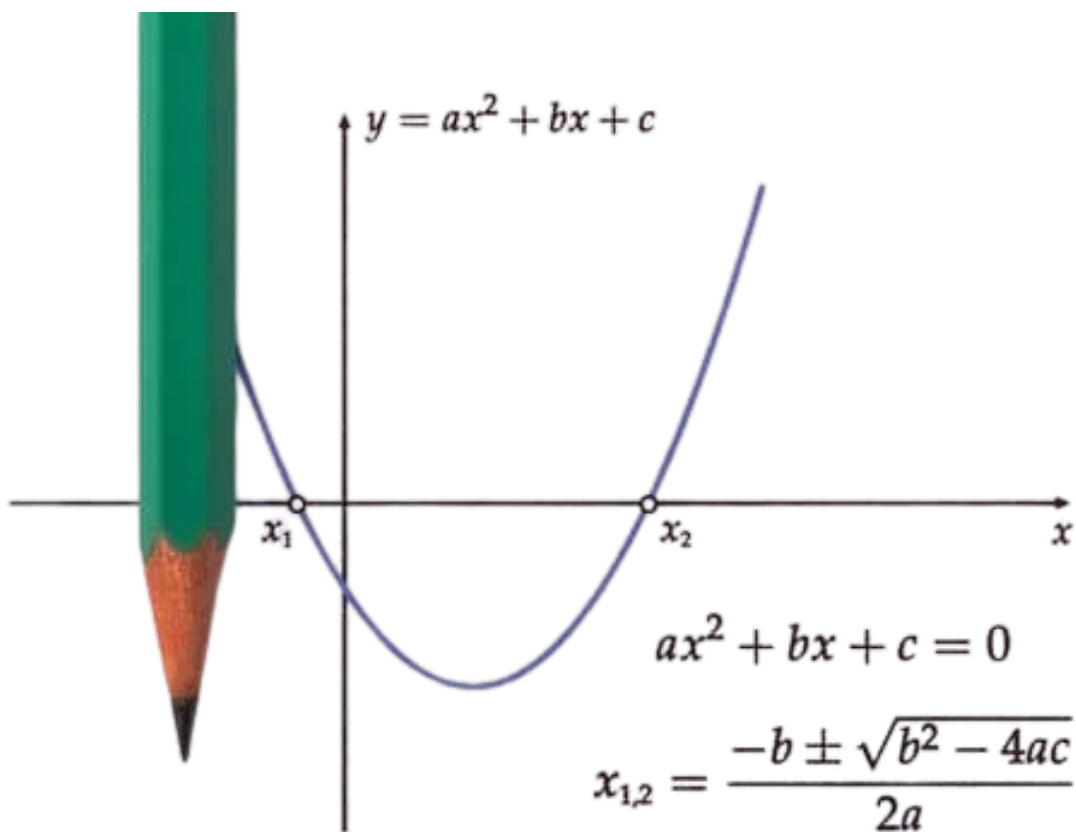

EDEXCEL IGCSE MATHEMATICS

UNIT 1 (MODULAR) GEOMETRY – QUADRATICS

QP & MS (2018 – 2025)



COMPILED BY:
SIR MUHAMMAD ABDULLAH SHAH



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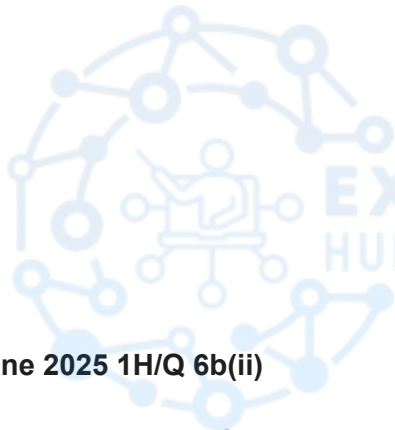


EDEXCEL IGCSE MATHEMATICS MODULAR UNIT 1 - QUADRATIC

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1.Nov 2025 1H/Q21

Express $5x^2 - 20x + 23$ in the form $a(x - b)^2 + c$ where a , b and c are integers.



EXAM PREP ARENA
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(Total for Question 21 is 3 marks)

2. June 2025 1H/Q 6b(ii)

(ii) Hence solve $y^2 - 11y + 30 = 0$

.....
(1)



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3. June 2025 1HR/Q 8c

(c) (i) Factorise $y^2 - 10y + 21$

.....
(2)

(ii) Hence, solve $y^2 - 10y + 21 = 0$

.....
(1)

4. Nov 2024 1H/Q 8a

(a) (i) Factorise $x^2 + 5x - 24$



.....
(2)

(ii) Hence, solve $x^2 + 5x - 24 = 0$

.....
(1)



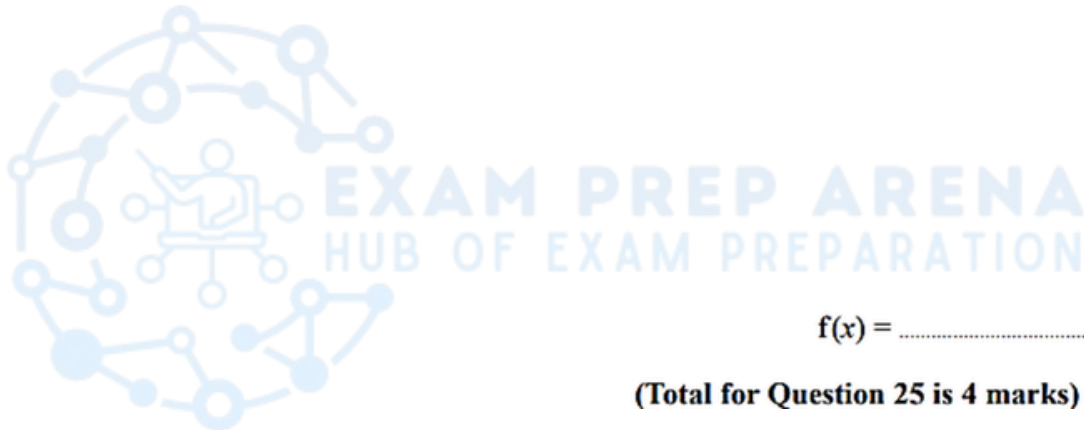
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5. June 2024 1H/Q 25

$$f(x) = 17 - 3x^2 + 12x$$

Write $f(x)$ in the form $a - b(x - c)^2$ where a , b and c are constants.



$$f(x) = \dots\dots\dots$$

(Total for Question 25 is 4 marks)



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6. June 2024 1HR/Q 20a,

- (a) Express $2x^2 - 11x + 9$ in the form $a(x - b)^2 - c$ where a , b and c are numbers to be found.

.....
(3)



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7. June 2024 1HR/Q7c

(c) (i) Factorise $x^2 - 2x - 63$

.....
(2)

(ii) Hence, solve $x^2 - 2x - 63 = 0$

.....
(1)



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8. June 2023 1H/Q6d

(d) (i) Factorise $x^2 + 9x - 22$

.....
(2)

(ii) Hence solve $x^2 + 9x - 22 = 0$

.....
(1)

9. Jan 2023 1HR/Q16c

The function g is such that

$$g(x) = 5x^2 - 20x + 23$$

(c) Express $g(x)$ in the form $a(x - b)^2 + c$

EXAM PREP ARENA
HUB OF EXAM PREPARATION

.....
(3)



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10. Jan 2023 1HR/Q8b

(b) (i) Factorise $y^2 - 3y - 18$

.....
(2)

(ii) Hence, solve $y^2 - 3y - 18 = 0$

.....
(1)

11. June 2022 1H/Q24

Express each of a , b and c in terms of q so that

$q + 12x - qx^2$
can be written as $a - b(x - c)^2$



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$a =$

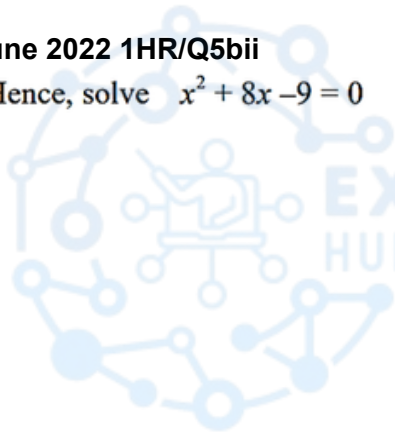
$b =$

$c =$

(Total for Question 24 is 4 marks)

12. June 2022 1HR/Q5bii

(ii) Hence, solve $x^2 + 8x - 9 = 0$



EXAM PREP ARENA
HUB OF EXAM PREPARATION

.....
(1)



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13. June 2022 1HR/Q23a

(a) Express $2x^2 - 12x + 3$ in the form $a(x + b)^2 + c$ where a , b and c are integers.

.....
(3)



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14. Jan 2022 1H/Q6bii

(ii) Hence, solve $y^2 - 2y - 35 = 0$

.....
(1)

15. Jan 2022 1H/Q20a

(a) Express $7 + 12x - 3x^2$ in the form $a + b(x + c)^2$ where a , b and c are integers.



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16. Jan 2022 1HR/Q 19b

Given that a , b and c are integers,

(b) express $3x^2 + 12x + 19$ in the form $a(x + b)^2 + c$

.....
(2)



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17. Nov 2021 1H/Q 17c

(c) Express $4x^2 - 8x + 7$ in the form $a(x + b)^2 + c$ where a , b and c are integers.

.....
(3)

18. May 2021 1H/Q9b

(b) Solve $(2x + 5)^2 = (2x + 3)(2x - 1)$



EXAM PREP ARENA
HUB OF EXAM PREPARATION

$x =$
(3)



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19. Jan 2021 1H/Q 9bii

(ii) Hence, solve $x^2 + 5x - 36 = 0$

.....
(1)

20. Jan 2021 1HR/Q 16b

(b) Express $x^2 - 10x + 40$ in the form $(x + a)^2 + b$, where a and b are integers.

.....
(2)



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21. Nov 2020 1H/Q7c

(c) (i) Factorise $y^2 - 2y - 48$

.....
(2)

(ii) Hence, solve $y^2 - 2y - 48 = 0$

.....
(1)

22. Jan 2020 1HR/Q 6

Solve $x^2 - 5x - 36 = 0$

Show clear algebraic working.



.....
(Total for Question 6 is 3 marks)



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23. June 2019 1H/Q22bi

(b) (i) Write $x^2 - 6x + 10$ in the form $(x - a)^2 + b$ where a and b are integers.

.....
(2)

24. June 2018 1H/Q3d

(d) (i) Factorise $x^2 + 2x - 24$

.....
(2)

(ii) Hence, solve $x^2 + 2x - 24 = 0$

.....
(1)

25. June 2018 1H/Q11b

(b) Solve $3x^2 + 6x - 5 = 0$
Show your working clearly.
Give your solutions correct to 3 significant figures.

.....
(3)



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26. Sample 2018 1H/Q6b

(b) Solve $x^2 - 4x - 12 = 0$

Show clear algebraic working.

(3)



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MARKING SCHEME

1. Nov 2025 1H/Q21

21	$5(x-2)^2 \dots\dots$ or $5[(x-2)^2 \dots\dots]$ or $5\left(x + \frac{-20}{5 \times 2}\right)^2 + \dots\dots$ or $5(x-b)^2 + c$		3	M1 for a start to completing the square or correct substitution into $a\left(x + \frac{b}{2a}\right)^2 + \dots\dots$ from the formula $a\left(x + \frac{b}{2a}\right)^2 - \frac{(b)^2}{4a} + c$ or $a = 5$ embedded in an incorrect final answer in the form $5(x-d)^2 + e$ (must be these signs)
	$5[(x-2)^2 - 2^2] \dots\dots$ or $5[(x-2)^2 - 4] \dots\dots$ or $5[(x-2)^2 - 2^2 \dots\dots]$ or $5[(x-2)^2 - 4 \dots\dots]$ or $5(x-2)^2 - 20 \dots\dots$			M1 for correctly completing the square but terms do not need to be simplified and 23 may or may not be present correct simplification or of the first two parts of $a\left(x + \frac{b}{2a}\right)^2 - \frac{(b)^2}{4a} (+c)$ NB: Please refer to ALT mark scheme for comparison of coefficients method
	<i>Correct answer scores full marks (unless from obvious incorrect working)</i>	$5(x-2)^2 + 3$		A1 oe eg $3 + 5(x-2)^2$ (if student continues to solve a quadratic equation, ISW)
Total 3 marks				

2. June 2025 1H/Q6b(ii)

(ii)		$(y=) 6, (y=) 5$	1	B1 must fit from their answer in (b)(i) fit from their factors in the form $(y+a)(y+b)$
Total 6 marks				

3. June 2025 1HR/Q8c

(c)(i)			2	M1 for $(y+3)(y+7)$ or for $(y+a)(y+b)$ with $ab = 21$ or $a+b = -10$
	<i>Correct answer scores full marks (unless from obvious incorrect working)</i>	$(y-3)(y-7)$		A1 for correct factors
(ii)		3, 7	1	B1 fit dep on factorising in the form $(y \pm p)(y \pm q)$
Total 5 marks				

4. Nov 2024 1H/Q8a

8	(a)(i)	$(x \pm 8)(x \pm 3)$ or $x(x-3) + 8(x-3)$ or $x(x+8) - 3(x+8)$		2	M1 for $(x \pm 8)(x \pm 3)$ or $(x+a)(x+b)$ where $ab = -24$ or $a+b = 5$ and, a and b are integers
		<i>Correct answer scores full marks (unless from obvious incorrect working)</i>	$(x+8)(x-3)$		A1 for $(x+8)(x-3)$ Allow any letter for x Must be in the form $(x+a)(x+b)$ where a and b are integers
	(ii)		-8 and 3	1	B1 must fit from their answer in (a)(i) fit from their incorrect factors in the form $(x+a)(x+b)$ Award B0 for -8 and 3 if no marks scored in (a)(i)



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5. June 2024 1H/Q 25

25	$\pm 3(x^2 \pm 4x)$ or $\pm 3(x^2 \pm 4x)$ or $b = 3$		4	M1 for factorising $-3x^2 + 12x$ or stating the correct value of b or $b = 3$ embedded in an incorrect final answer in the form $a - 3(x - c)^2$
	$-3[(x-2)^2 \dots\dots\dots]$ or $-3(x-2)^2 \dots\dots\dots$			M1 for a correct first step to complete the square
	$-3[(x-2)^2 - (2)^2] \dots\dots\dots$ oe or $-3(x-2)^2 + 12 \dots\dots\dots$ or $-3[(x-2)^2 - (2)^2] \dots\dots\dots$ oe			M1 for a correct second step to complete the square
	<i>Working not required, so correct answer scores full marks (unless from obvious incorrect working)</i>	$29 - 3(x-2)^2$		A1 oe eg $-3(x-2)^2 + 29$
				Total 4 marks

25 ALT	$-bx^2 + 2bcx - bc^2 + a$ oe or $b = 3$		4	M1 for multiplying out $a - b(x - c)^2$ or stating the correct value of b or $b = 3$ embedded in an incorrect final answer in the form $a - 3(x - c)^2$
	$2bc = 12$ or $a - bc^2 = 17$ oe			M1 for equating coefficients
	$2 \times "3" \times c = 12$ or $a - "3" \times "2" = 17$ oe			M1 for finding at least 2 from a or b or c
	<i>Working not required, so correct answer scores full marks (unless from obvious incorrect working)</i>	$29 - 3(x-2)^2$		A1 oe eg $-3(x-2)^2 + 29$
				Total 4 marks

6. June 2024 1HR/Q20a

20 (a)	$2\left(x^2 - \frac{11}{2}x\right) + \dots$ or $2\left(x^2 - \frac{11}{2}x + \dots\right)$ oe		3	M1 for taking out a factor of 2
	$2\left[\left(x - \frac{11}{4}\right)^2 - \frac{11^2}{4^2}\right] + \dots$ or $2\left[\left(x - \frac{11}{4}\right)^2 - \frac{11^2}{4^2} + \dots\right]$ oe			M1 for correctly completing square
	<i>Correct answer scores full marks (unless from obvious incorrect working)</i>	$2\left(x - \frac{11}{4}\right)^2 - \frac{49}{8}$		A1 oe, eg $2(x - 2.75)^2 - 6.125$ allow $a = 2$, $b = \frac{11}{4}$ oe, $c = \frac{49}{8}$ oe if no other marks awarded, award SCB1 for $2\left(x - \frac{11}{4}\right)^2 + \dots$
ALTERNATIVE				
ALT (a)	$ax^2 - 2bax + b^2a - c$		3	M1 for correctly expanding $a(x - b)^2 - c$ to give $ax^2 - 2bax + b^2a - c$
	$-2ba = -11$ or $2ba = 11$ and $b^2a - c = 9$			M1 for setting up 2 equations using the coefficient of x and the numerical term
	<i>Correct answer scores full marks (unless from obvious incorrect working)</i>	$2\left(x - \frac{11}{4}\right)^2 - \frac{49}{8}$		A1 oe, eg $2(x - 2.75)^2 - 6.125$ allow $a = 2$, $b = \frac{11}{4}$ oe, $c = \frac{49}{8}$ oe if no other marks awarded, award SCB1 for $2\left(x - \frac{11}{4}\right)^2 + \dots$



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7. June 2024 1HR/Q7c

(c) (i)	$(x \pm 7)(x \pm 9)$		2	M1 for $(x \pm 7)(x \pm 9)$ or for $(x + a)(x + b)$ where $ab = -63$ or $a + b = -2$ where a and b are integers
	<i>Correct answer scores full marks (unless from obvious incorrect working)</i>	$(x + 7)(x - 9)$		A1 for correct factors
(ii)		-7, 9	1	B1 must fit from (c)(i) dep on factorising in the form $(x + p)(x + q)$ where p and q are integers

8. June 2023 1H/Q 6d

(d)(i)	$(x \pm 11)(x \pm 2)$		2	M1 for $(x \pm 11)(x \pm 2)$ or for $(x + a)(x + b)$ with $ab = -22$ or $a + b = 9$
	<i>Correct answer scores full marks (unless from obvious incorrect working)</i>	$(x + 11)(x - 2)$		A1 for correct factors
(ii)		-11, 2	1	B1 ft dep on factorising in the form $(x + p)(x + q)$
Total 8 marks				

9. Jan 2023 1HR/Q16c

(c)	$5(x^2 - 4x) \dots\dots\dots$ or $5(x^2 - 4x \dots\dots\dots)$ or $5(x - 2)^2 \dots$		3	M1
	$5[(x - 2)^2 - (-2)^2] \dots\dots\dots$ or $5[(x - 2)^2 - (-2)^2 \dots\dots\dots]$ or $5(x - 2)^2 - 20 \dots\dots\dots$ or $5[(x - 2)^2 + \frac{3}{5}]$			M1 $(-2)^2$ can be 2^2 or 4 or $(\pm \frac{4}{2})^2$
	<i>Correct answer scores full marks (unless from obvious incorrect working)</i>	$5(x - 2)^2 + 3$		A1

10. Jan 2023 1HR/Q 8b

(b) (i)	eg $(y \pm 6)(y \pm 3)$ or $y(y + 3) - 6(y + 3)$ or $y(y - 6) + 3(y - 6)$		2	M1 or $(y + a)(y + b)$ where $ab = -18$ or $a + b = -3$ or factorisation which expands to give 2 out of 3 correct terms
	[allow use of x rather than y]	$(y - 6)(y + 3)$		A1
(ii)		6, -3	1	B1 ft must come from their factors in (b)(i)
Total 5 marks				

11. June 2022 1H/Q 24

24	$-q \left(x^2 - \frac{12}{q}x \right) + q$ or $-q \left(x^2 - \frac{12}{q}x - \frac{q}{q} \right)$ oe		4	M1 for a correct factorisation of the expression or $b = q$ (must be stated)
	$-q \left[\left(x - \frac{12}{2q} \right)^2 \dots\dots \right]$ oe or $-q \left[\left(x - \frac{6}{q} \right)^2 \dots\dots \right]$ oe			M1 for starting the correct process to complete the square
	E.g. $-q \left(x - \frac{6}{q} \right)^2 + \frac{36}{q} + q$ oe or $-q \left(x - \frac{12}{2q} \right)^2 + \frac{144q}{4q^2} + q$ oe			M1 for a complete process of completing the square. (Does not need to be simplified)
		$a = \frac{36}{q} + q$ $b = q$ $c = \frac{6}{q}$		A1 oe a and c must come from a correct process of completing the square. (Does not need to be simplified)
Total 4 marks				



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12. June 2024 1HR/Q7c

(ii)		-9, 1	1	B1 ft dep on factorising in the form $(x+p)(x+q)$
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13. June 2022 1HR/Q23a

23 (a)	$2(x^2 - 6x) + 3$ or $2(x^2 - 6x + \frac{3}{2})$		3	M1 or for one of a, b or c correct OR expanding $a(x^2 + 2bx + b^2) + c$
	$2[(x-3)^2 - 9] + 3$ or $2[(x-3)^2 - 3^2 + \frac{3}{2}]$ oe			M1 or for two of a, b or c correct OR $-12 = 2ab$ or $3 = ab^2 + c$
		$2(x-3)^2 - 15$		A1 accept $a = 2, b = -3, c = -15$

14. Jan 2022 1H/Q6bii

(ii)		7, -5	1	B1ft answer must fit from their $(y+a)(y+b)$ in (b)(i). Award B0 for 7, -5 if no marks scored in (i)
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15. Jan 2022 1H/Q 20

20 (a)	$7 - 3(x^2 - 4x)$		3	M1 or for one of a, b or c correct
	$7 - 3[(x-2)^2 - 4]$			M1 or for two of a, b or c correct
		$19 - 3(x-2)^2$		A1

16. Jan 2022 1HR/Q19b

	$3\left(x^2 + 4x + \frac{19}{3}\right)$ and $3\left((x+2)^2 - 2^2 + \frac{19}{3}\right)$ or $a = 3$ and $2ab = 12$ oe and $b^2a + c = 19$ oe or $a = 3$ and $b = \frac{12}{2 \times 3}$ oe and $c = -\frac{12^2}{4 \times 3} + 19$ oe			correctly completing the square or for equating coefficients by expanding $a(x+b)^2 + c = ax^2 + 2abx + b^2a + c$ or for equating coefficients by using $ax^2 + bx + c = a\left(x + \frac{b}{2a}\right)^2 - \frac{b^2}{4a} + c$
		$3(x+2)^2 + 7$		A1 accept $a = 3, b = 2, c = 7$

17. Nov 2021 1H/Q17c

(c)	$4(x^2 - 2x) + 7$ or $4\left(x^2 - 2x + \frac{7}{4}\right)$ oe		3	M1
	$4[(x-1)^2 - 1^2] + 7$ oe or $4\left[(x-1)^2 - 1^2 + \frac{7}{4}\right]$ oe			M1 for a complete method
	<i>Correct answer scores full marks (unless from obvious incorrect working)</i>	$4(x-1)^2 + 3$		A1 allow $a = 4, b = -1$ and $c = 3$

18. May 2021 1H/Q9b

(b)	$4x^2 + 10x + 10x + 25 = 4x^2 - 2x + 6x - 3$ $4x^2 + 20x + 25 = 4x^2 + 4x - 3$		3	M1 Correct expansion of $(2x+5)^2$ or $(2x+3)(2x-1)$ or expansion of both sets of brackets with at least 3 of 4 terms correct in both (NB: if written as a 3 term quadratic (and not seen as 4 terms) then the middle term must be correct as it is equivalent to 2 correct terms) (eg (RHS) $4x^2 + 4x + 3$ has 1 error, $2x^2 + 4x - 3$ has 1 error, $4x^2 + 10x - 3$ has 2 errors)
	$10x + 10x - 6x + 2x = -3 - 25$ or $3 + 25 = -16x$ or $16x = -28$ oe			M1 ft if previous mark awarded. For terms in x on one side and number terms on the other side in a correct ft equation dependent on a linear equation
	<i>Working not required, so correct answer scores full marks (unless from obvious incorrect working eg -1.75 oe from $2x^2 + 20x + 25 = 2x^2 + 4x - 3$ scores M2A0)</i>	-1.75		A1 or $-1\frac{3}{4}$ or $-\frac{7}{4}$ or $-\frac{28}{16}$ or $-1\frac{12}{16}$ oe



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19. Jan 2021 1H/Q9bii

(ii)		-9, 4	1	B1	ft from (b)(i)
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20. Jan 2021 1HR/Q 16b

b	E.g. $(x-5)^2 - 5^2 (+40)$ or $(x-5)^2 - 25 (+40)$ $(x^2 + 2ax + a^2 (+b^2))$ $2a = -10$ or $a = -5$		2	M1	for a correct first step or for equating coefficients
		$(x-5)^2 + 15$		A1	accept $a = -5, b = 15$ SC B1 for $(-x+5)^2 + 15$ or $(5-x)^2 + 15$

21. Nov 2020 1H/Q7c

(c)(i)	$(y \pm 6)(y \pm 8)$		2	M1	
		$(y-8)(y+6)$		A1	
(c)(ii)		8, -6	1	B1	must ft from their factors in (c)(i)

22. Jan 2020 1HR/Q6

6	e.g. $a = (-3 + 47) \div 2 (= 22)$ or $\frac{11+b}{2} = -19$ ($b = -38 - 11 = -49$) or method to add 25 to -3 or method to subtract 25 from 47 or method to subtract 30 from -19 or method to subtract 60 from 11		2	M1	for a correct method to find either coordinate or one coordinate correct. Look for correct method on their diagram, if used.
		$a = 22, b = -49$		A1	both correct
Total 2 marks					

23. June 2019 1H/Q22bi

bi		(2, 5)	1	B1	
----	--	--------	---	----	--

24. June 2018 1H/Q3d

(d)		$4cp^2(4c^3 + 5p)$	2	B2	if not B2 then award B1 for any correct factorisation with at least 2 factors outside the bracket eg $4cp(4c^3p + 5p^2)$, $cp^2(16c^3 + 20p)$, $2p(8pc^4 + 10cp^2)$ etc or the correct common factor and a 2 term expression with just one error
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25. June 2018 1H/Q11b

11	5.5 or 6.5 or 12.5 or 17.5		3	M1	Accept 6.49 for 6.5 and 17.49 for 17.5
	17.5 - 5.5			M1	for UB - LB where $15 < UB \leq 17.5$ and $5.5 \leq LB < 6$
		12		A1	dep on M2
Total 3 marks					

26. Sample 2018 1H/Q6b

b	$(x \pm 6)(x \pm 2)$ $(x - 6)(x + 2)$			AO1	M1	or correct substitution into quadratic formula (condone one sign error)
		6, -2	3		M1	or $\frac{4 \pm \sqrt{64}}{2}$
					A1	dep. on at least M1

