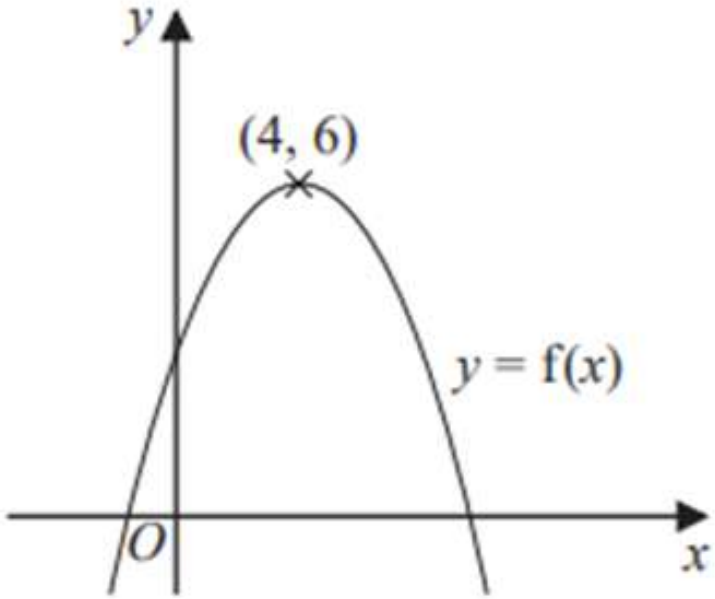
EDEXCEL IGCSE MATHEMATICS

UNIT 2 (MODULAR)

GRAPHS – TRANSFORMATION OF GRAPHS

QP & MS (2018 – 2025)



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EDEXCEL IGCSE MATHEMATICS MODULAR FOR MAY & OCT 2026

by Sir Muhammad Abdullah Shah

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1. June 2024 2HR/Q23

A curve has equation $y = f(x)$

There is only one minimum point on the curve.
The coordinates of this minimum point are (5, 4)

Write down the coordinates of the minimum point on the curve with equation

(i) $y = f(x + 5)$

(.....,.....)
(1)

(ii) $y = 3f(x)$

(.....,.....)
(1)

(iii) $y = f(x) - 7$

(.....,.....)
(1)

(Total for Question 19 is 3 marks)

2. June 2024 2HR/Q23

A curve has equation $y = f(x)$
The coordinates of the minimum point on this curve are $(6, -3)$

Write down the coordinates of the minimum point on the curve with equation

(i) $y = f(x) + 10$

(.....,.....)
(1)

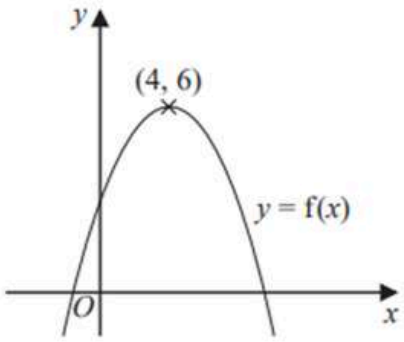
(ii) $y = f(3x)$

(.....,.....)
(1)

(Total for Question 23 is 2 marks)

3. Jan 2020 2H/Q21

The diagram shows a sketch of part of the curve with equation $y = f(x)$



There is one maximum point on this curve.
The coordinates of this maximum point are (4, 6)

(a) Write down the coordinates of the maximum point on the curve with equation

(i) $y = f(x + 4)$

(.....,.....)

(ii) $y = f(2x)$

(.....,.....)

(2)

The equation of a curve **C** is $y = x^2 + 3x + 4$

The curve **C** is transformed to curve **S** under the translation $\begin{pmatrix} 4 \\ 6 \end{pmatrix}$

(b) Find an equation of curve **S**.

You do not need to simplify the equation.

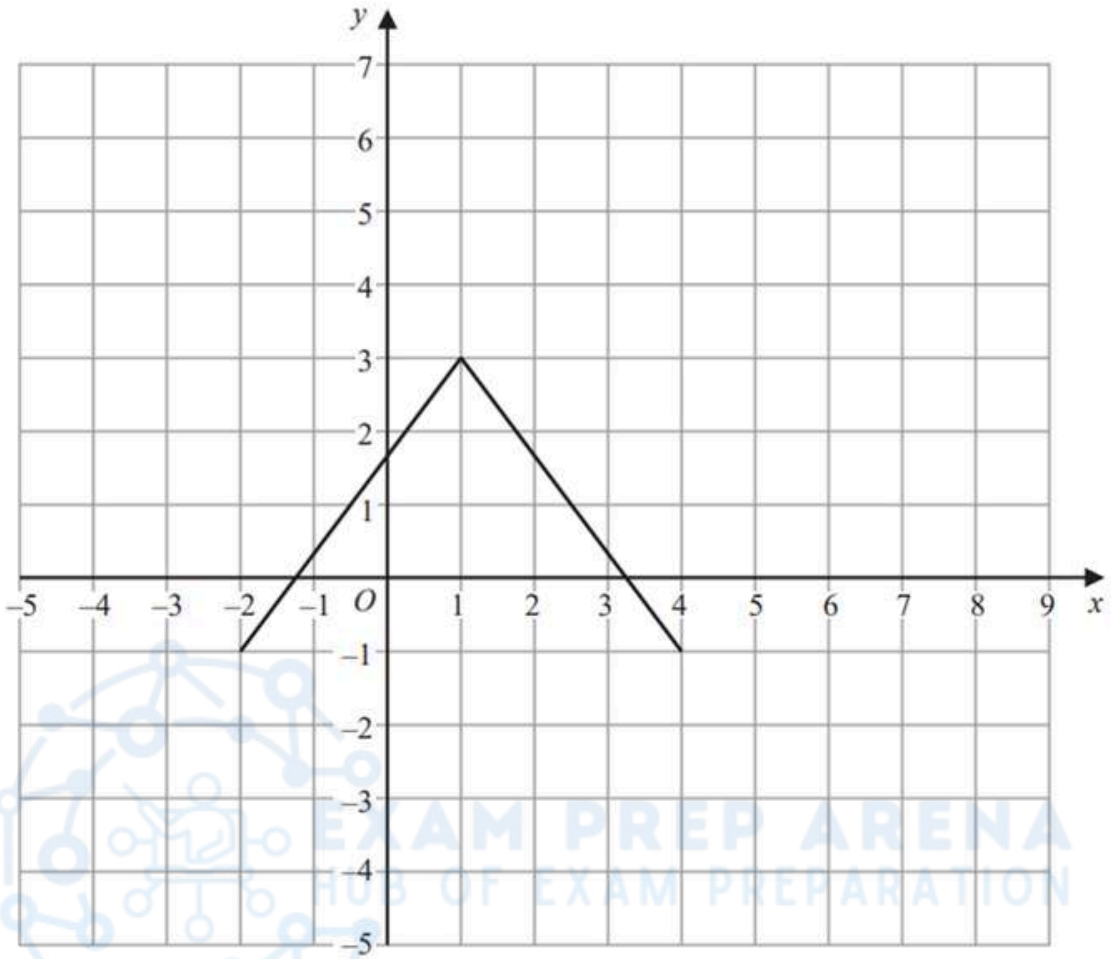
.....

(2)

(Total for Question 21 is 4 marks)

4. June 2018 2HR/Q21

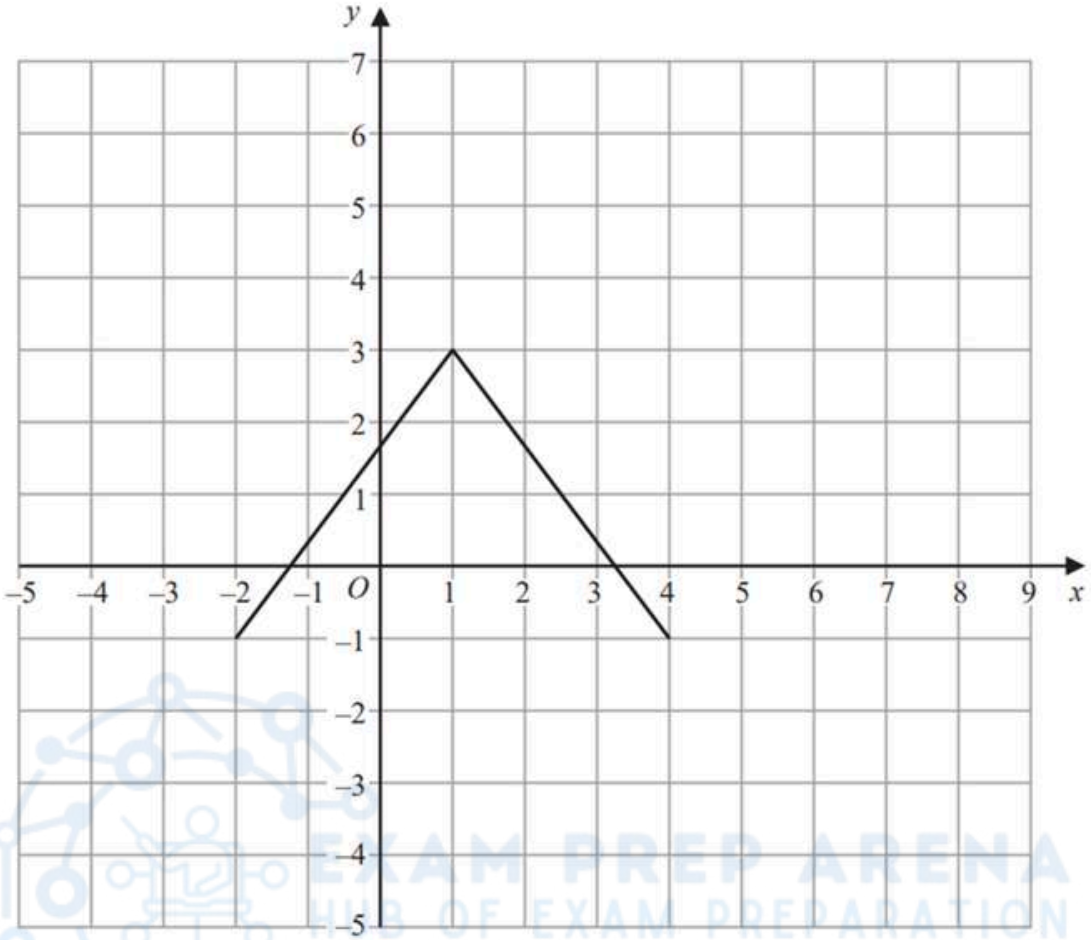
Here is the graph of $y = f(x)$



(a) On the grid above, draw the graph of $y = 2f(x)$

(2)

Here is the graph of $y = f(x)$



(b) On the grid above, draw the graph of $y = f(-x)$

(2)

(Total for Question 21 is 4 marks)

MARKING SCHEME

1. June 2024 2HR/Q23

19	(i)		(0, 4)	1	B1
	(ii)		(5, 12)	1	B1
	(iii)		(5, –3)	1	B1
					Total 3 marks

2. June 2024 2HR/Q23

23	(i)		(6, 7)	1	B1
	(ii)		(2, –3)	1	B1
					Total 2 marks

3. Jan 2020 2H/Q21

22	(a)(i)		(−3, −1)	1	B1
	(ii)		(−6, 2)	1	B1
	(b)		$(p+c,-q)$	2	B2 for $(p+c,-q)$ (B1 for $p+c$ **or** $-q$ in the correct place)
					Total 4 marks

4. June 2018 2HR/Q21

Question	Working	Answer	Mark	Notes
21 (a)		(−2, −2), (1, 6), (4, −2) Plotted and joined	2	B2 Fully correct graph- professional judgment required. (B1 for (1, 6) plotted **OR** (−2, −2) and (4, −2) plotted)
(b)		(2, −1), (−1, 3) (−4, −1) Plotted and joined	2	B2 Fully correct graph – professional judgment required. (B1 for 2 of the 3 points plotted) SC B1 for a correct reflection in the x-axis
				Total 4 marks