Name:

GCSE (1 – 9)

Transforming Graphs

Instructions

- Use **black** ink or ball-point pen.
- Answer all questions.
- Answer the questions in the spaces provided
- there may be more space than you need.
- Diagrams are NOT accurately drawn, unless otherwise indicated.
- You must show all your working out.

Information

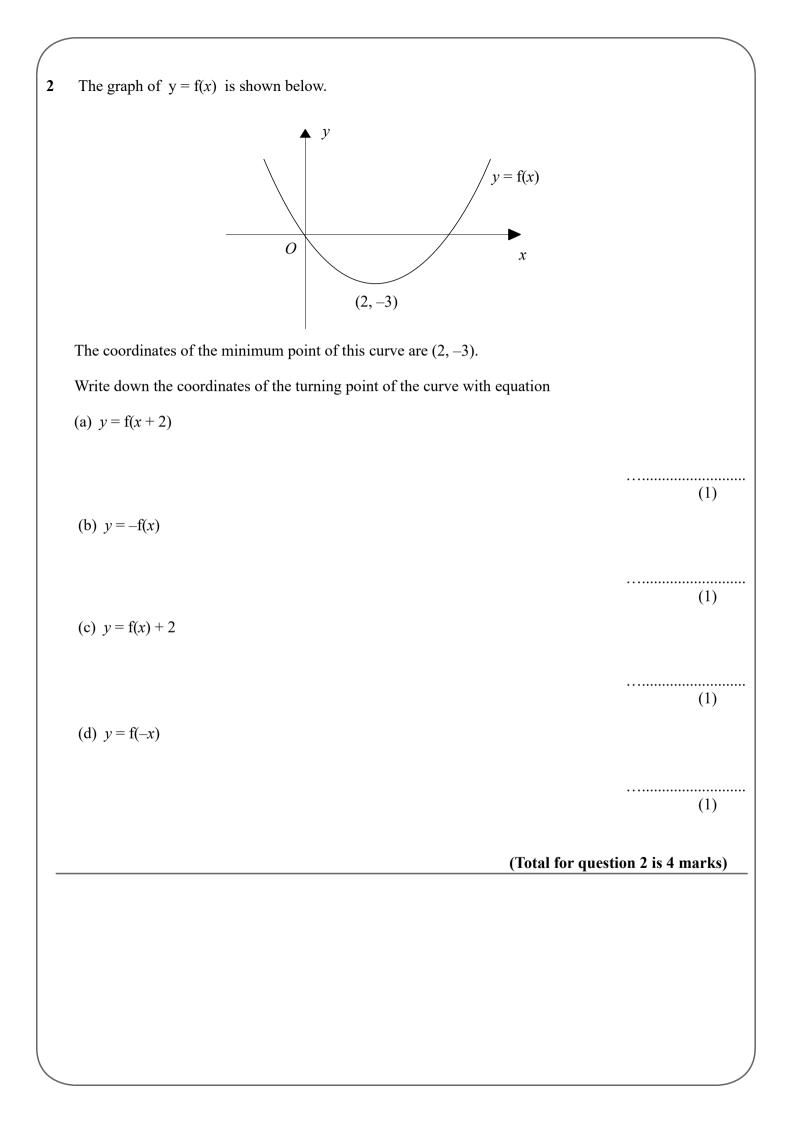
- The marks for each question are shown in brackets
- use this as a guide as to how much time to spend on each question.

Advice

- Read each question carefully before you start to answer it.
- Keep an eye on the time.
- Try to answer every question.
- Check your answers if you have time at the end

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The graph of y = f(x) is shown below. 1 У (1, 4) y = f(x)0 x The coordinates of the maximum point of this curve are (1, 4). Write down the coordinates of the turning point of the curve with equation (a) y = f(x+3)(1) (b) y = -f(x)(1) (c) y = f(x) - 3(1) (d) y = f(-x)(1) (Total for question 1 is 4 marks)



The graph of y = f(x) is shown below. 3 y (-2, 1) y = f(x)0 x The coordinates of the maximum point of this curve are (-2, 1). Write down the coordinates of the turning point of the curve with equation (a) y = f(x - 3)(1) (b) y = f(-x)(1) (c) y = -f(x + 2)(1) (d) y = f(-x) - 1(1) (Total for question 3 is 4 marks)

