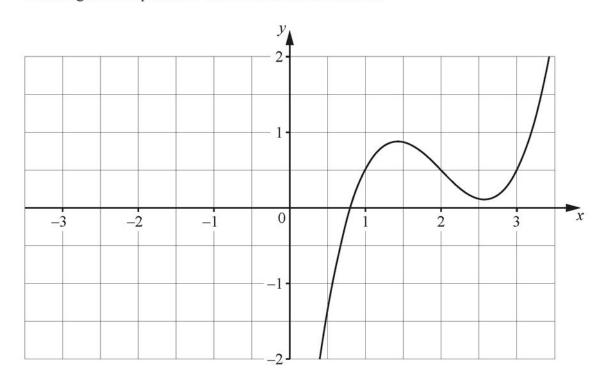
The diagram shows the curve y = f(x), where f(x) is a cubic polynomial in x. This diagram is repeated in the Printed Answer Booklet.

3



- (a) State the values of x for which  $f(x) < \frac{1}{2}$ , giving your answer in set notation.
- **(b)** On the diagram in the Printed Answer Booklet, draw the graph of y = f(-x).
- (c) Explain how you can tell that f(x) cannot be expressed as the product of three real linear factors. [1]

[3]

[2]