

Paper Reference 8FM0–21
Pearson Edexcel
Level 3 GCE

Further Mathematics
Advanced Subsidiary
Further Mathematics options
21: Further Pure Mathematics 1
(Part of options A, B, C and D)

Thursday 16 May 2019 – Afternoon

Diagram Book

In the boxes below, write your name, centre number and candidate number.

Surname					
Other names					
Centre Number					
Candidate Number					

INSTRUCTIONS

There may be spare copies of some diagrams in case you need them.

THIS DIAGRAM BOOK **MUST BE RETURNED WITH THE
QUESTION PAPER AT THE END OF THE EXAMINATION.**

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Question 2

Line 3

$$x(x - 24)(x + 11)^2 > (x + 11)(x - 24)^2$$

$$x(x - 24)(x + 11)^2 - (x + 11)(x - 24)^2 > 0$$

$$(x - 24)(x + 11)[x(x + 11) - x - 24] > 0$$

$$(x - 24)(x + 11)[x^2 + 10x - 24] > 0$$

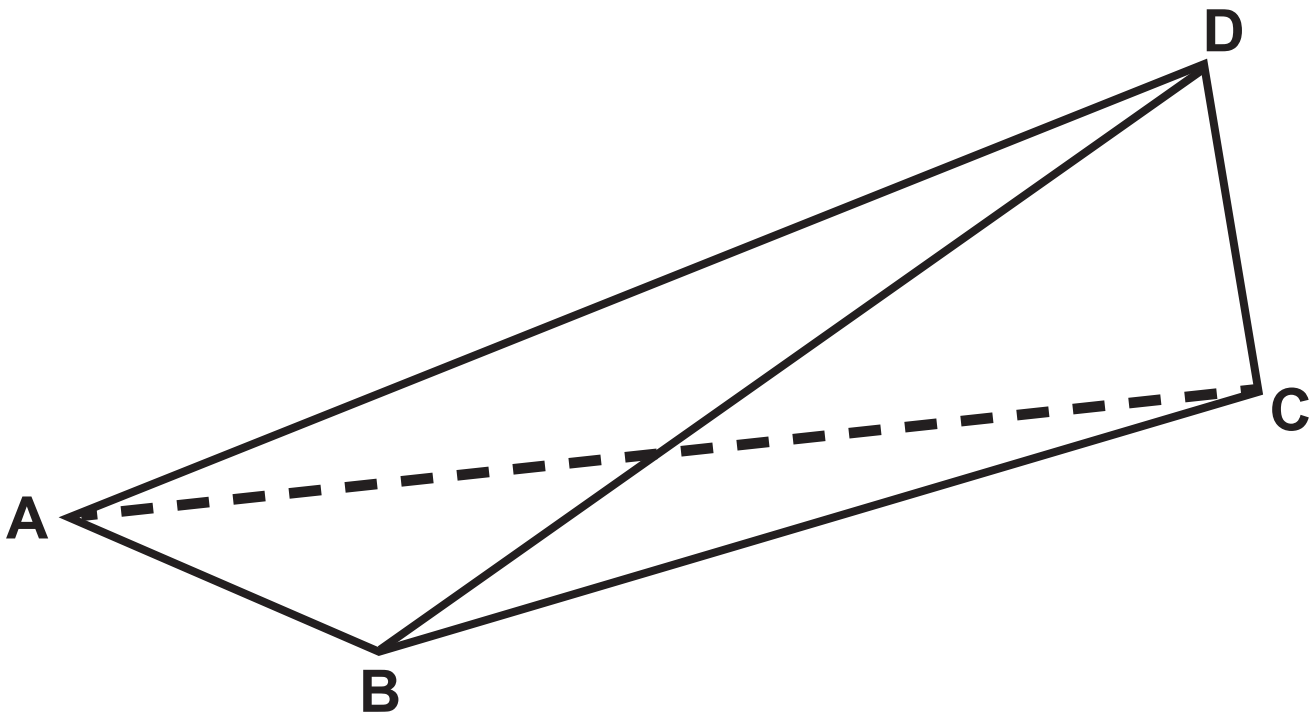
$$(x - 24)(x + 11)(x + 12)(x - 2) > 0$$

$$x = 24, x = -11, x = -12, x = 2$$

Line 7

$$\{x \in \mathbb{R} : -12 < x < -11\} \cup \{x \in \mathbb{R} : 2 < x < 24\}$$

Question 4



Question 5

