

Paper Reference 9FM0/02
Pearson Edexcel
Level 3 GCE
Further Mathematics
Advanced
PAPER 2: Core Pure
Mathematics 2

Diagram Booklet

**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 BOOKLET MUST BE
RETURNED WITH THE ANSWER
BOOKLET AT THE END OF THE
EXAMINATION.**

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Question 1

Line 1 →

$$\arg(z_1) = \tan^{-1}\left(\frac{3}{3}\right) = \frac{\pi}{4}$$

Line 2 →

$$\arg(z_2) = \tan^{-1}\left(\frac{1}{\sqrt{3}}\right) = \frac{\pi}{6}$$

Line 3 →

$$\arg\left(\frac{z_1}{z_2}\right) = \frac{\arg(z_1)}{\arg(z_2)}$$

Line 4 →

$$= \frac{\left(\frac{\pi}{4}\right)}{\left(\frac{\pi}{6}\right)} = \frac{3}{2}$$

Question 7

