

**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.**

<b>Surname</b>					
<b>Other names</b>					
<b>Centre Number</b>					
<b>Candidate Number</b>					

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

Line 2  $\longrightarrow$   $\arg(z_2) = \tan^{-1}\left(\frac{1}{\sqrt{3}}\right) = \frac{\pi}{6}$

Line 3  $\longrightarrow$   $\arg\left(\frac{z_1}{z_2}\right) = \frac{\arg(z_1)}{\arg(z_2)}$

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

Question 7

