

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					
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## 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

