

MINISTRY OF EDUCATION, SINGAPORE  
 in collaboration with  
 UNIVERSITY OF CAMBRIDGE LOCAL EXAMINATIONS SYNDICATE  
 General Certificate of Education Advanced Level  
 Higher 2

**MATHEMATICS**

Paper 2  
 SPECIMEN PAPER

**9758/02**

For Examination from 2017  
 3 hours

- 1 (i) The function  $f$  is defined as follows:

$$f: x \rightarrow 3 \cos x - 2 \sin x, x \in \mathbb{R}, -\pi \leq x \leq \pi$$

Write  $f(x)$  as  $R \cos(x + \alpha)$ , where  $R$  and  $\alpha$  are constants to be found. Hence, or otherwise, find the range of  $f$  and sketch the curve. [4]

- (ii) The function  $g$  is defined as follows:

$$g: x \rightarrow 3 \cos x - 2 \sin x, x \in \mathbb{R}, -a \leq x \leq b.$$

Given that the function  $g^{-1}$  exists, write down the largest value of  $b$ . Find  $g^{-1}(x)$ . [3]

i).

$$f(x) = 3 \cos x - 2 \sin x$$

$$\text{Let } R \cos(x + \alpha) = 3 \cos x - 2 \sin x$$

$$R \cos x \cos \alpha - R \sin x \sin \alpha = 3 \cos x - 2 \sin x$$

By Comparing Coefficients:

$$R \cos \alpha = 3 \quad \text{①}$$

$$R \sin \alpha = 2 \quad \text{②}$$

$$\frac{\text{②}}{\text{①}}: \tan \alpha = \frac{2}{3}$$

$$\alpha = \tan^{-1} \frac{2}{3} = 0.588 \text{ radian.}$$

$$\text{①}^2 + \text{②}^2: R^2 \cos^2 \alpha + R^2 \sin^2 \alpha = 3^2 + 2^2$$

$$\therefore R^2 = 13$$

$$R = \sqrt{13}$$

$$\text{Hence, } f(x) = \sqrt{13} \cos(x + 0.588)$$

This method works for those who do not remember their R-Formulae



- ii). from the above graph,  
 $b = \pi - 0.588$

$$\text{Let } y = \sqrt{13} \cos(x + 0.588)$$

$$\cos^{-1}\left(\frac{y}{\sqrt{13}}\right) = x + 0.588$$

$$\therefore x = -0.588 + \cos^{-1}\left(\frac{y}{\sqrt{13}}\right)$$

$$g^{-1}(x) = -0.588 + \cos^{-1}\left(\frac{x}{\sqrt{13}}\right), -\sqrt{13} \leq x \leq \sqrt{13}$$

# 2007 A Level Math Solutions Paper 2

**L Reisser**



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