

**Matrices CSEC Past Paper Compilation**  
**Prepared by Ms C Shaw**

**JAN 2023**

10. (a) Three matrices  $Q$ ,  $R$  and  $S$  are as follows:

$$Q = \begin{pmatrix} 2 & -1 \\ 4 & 3 \end{pmatrix}, \quad R = \begin{pmatrix} 1 & 6 \\ -5 & 4 \end{pmatrix}, \quad S = \begin{pmatrix} 2 & 7 \\ 4 & -1 \\ -8 & 9 \end{pmatrix}$$

(i) Explain why the matrix product  $QS$  is NOT possible. [1]

(ii) State the order of the matrix product  $SR$ . [1]

(iii) Calculate the matrix product  $QR$ . [2]

(b) Given that  $A = \begin{pmatrix} 4 & -1 \\ -7 & x \end{pmatrix}$ , determine the value of  $x$  when  $|A| = 5$ . [2]

**JUN 2022**

(b) The  $2 \times 2$  matrix  $C$  is defined, in terms of a scalar constant  $k$ , by

$$C = \begin{pmatrix} 3 & k \\ 6 & 4 \end{pmatrix}.$$

Determine the value of  $k$ , given that the matrix  $C$  is singular.

# Csec Maths Past Papers

**Caribbean Examination Council**

A red circular graphic with a gradient, appearing as a semi-circle on the right side of the page, partially overlapping the grey bar.

## **Csec Maths Past Papers:**

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more difficult aspects of the CSEC Mathematics syllabus      Csec(r) Maths Workbook Terry David,2016-02-09 This CSEC Maths Workbook is a valuable activity book for CSEC maths students It covers all aspects of the Caribbean Examinations Council s Certificate of Secondary Education Mathematics syllabus This book provides excellent practice for CSEC Examination and is a great aid to revision and examination practice It has been specially written to help CSEC students maximize their exam scores      **CSECÂ® Mathematics** Raphael Johnson,2019-10-30 Collins CSEC R Mathematics provides a new approach to the study of the CSEC R mathematics syllabus Fully grounded in the practical application of maths in the world today it features clear explanations differentiated practice exercises and guidance on the School Based Assessment Collins CSEC R Mathematics has been written for the CXC R syllabus effective for examinations from May June 2018 It provides full coverage of this syllabus with real world and everyday contexts for all topics to help Caribbean students understand why maths is so important for the world today with guidance on the School Based Assessment worked examples and differentiated or graded practice questions to help students understand the level they are working at and the level they need to be working at to achieve a good grade Written by a highly experienced teacher in the Caribbean      **Mathematics** Caribbean Examinations Council,2008      **Higher Maths Past Papers** Leckie & Leckie,Scottish Qualifications Authority,2001-11-01

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web align the timing marks of the camshaft with the mark plates of the timing chain and install the timing chain hint align the timing marks with the mark plates while turning the hexagonal service portion of the camshaft using a wrench 2 install chain tensioner slipper a install the chain tensioner slipper 3 install chain tensioner

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web rotate the crankshaft pulley two complete turns clockwise and check the timing marks if the timing marks are correct tighten the lock bolt for the tensioner to 20 to 34 n m 200 to 350 kgfcm for fe to 37 to 52 n m 380 to 530 kgfcm for f2 engine check the movement on the tension side of the timing belt

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web fe engines use a timing assembly very similar to other ford engines with the aforementioned cam thrust plate an offset positioned dowel pin for locating and a single central cam bolt for retention the factory cam sprockets were often aluminum

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