

NATIONAL CERTIFICATE

MATHEMATICS N4

(16030164)

20 November 2024 (X-Paper)

09:00–12:00

Calculators may be used.

This question paper consists of 5 pages and a 1-page formula sheet.

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T1030(E)(M28)T

QUESTION 1

- 1.1 1.1.1 Sketch the graph of  $\frac{x^2}{20} + \frac{y^2}{32} = \frac{1}{50}$ . (3)
- 1.1.2 What is the domain of the graph in QUESTION 1.1.1? (2)
- 1.1.3 Is the graph in QUESTION 1.1.1 symmetrical about both axes? (1)
- 1.1.4 Does the graph in QUESTION 1.1.1 represent a function or a relation? (1)
- 1.2 Sketch the graph of  $x = +\sqrt{27 + y^2}$ . (3)
- 1.3 Solve for  $x$  if:  
 $x^2 + 2x = -2$  (4)
- 1.4 Simplify the following and leave answer in  $a + jb$  form:

$(1 - j)^2$

# Mathematics N4 Question Papers With Memorandum

**L Reisser**



## **Mathematics N4 Question Papers With Memorandum:**

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**Current Index to Journals in Education** ,1992  
**Government Reports Announcements & Index** ,1979 **U.S. Government Research & Development Reports** ,1968 *CIS Index to U.S. Executive Branch Documents, 1910-1932* Congressional Information Service, 2001 *China* World Bank, 1993 The Republic of Korea s industrial policy has directed that nation s economy through nearly three decades of spectacular growth But the authors of this paper maintain that this policy is showing signs of being outmoded The time has come the authors argue for the Korean government to stop managing the economy s structural development and to redefine the responsibilities of business and government Under this proposed compact the allocation of resources would shift from the government to the private industrial and financial sectors The transformation of the government bureaucracy from an ad hoc policy role to one of a transparent and predictable regulator is a key to the success of this undertaking These new directions would present the government with enormous challenges Greater competitive discipline and regulatory oversight would be required While dealing with the complexities of the transition the government would have to maintain macroeconomic stability and the momentum of savings and investment For comparison the study examines the industrial economies of France Germany Japan and the United States which underwent similar shifts *Research in Education* ,1974

*Bibliography of Scientific and Industrial Reports* ,1968-04 **Resources in Education** ,1985 *Government Reports Announcements* ,1972 **U.S. Government Research & Development Reports** ,1966-03 *National Union Catalog* ,1978 Includes entries for maps and atlases **alternative press index** ALTERNATIVE PRESS INDEX, 2002 **IRE Transactions on Human Factors in Electronics** Institute of Radio Engineers. Professional Group on Human Factors in Electronics, 1960 *The National Union Catalogs, 1963-* ,1964 **CIS Index to U.S. Executive Branch Documents, 1910-1932: Library of Congress. Mediation Board. Mediation and Conciliation Board. Navy Department. National Academy of Sciences. National Capital Parks and Planning Commission. National Home for Disabled Volunteer Soldiers (4 v. )** ,2001 *Annual Report 1989-90* New Brunswick. Department of Transportation, 1991 General activity review of associated branches and agencies to the Department which includes corporate securities registrations a list of

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