# 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.**

048Q1E2420

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**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:

$[($

# 2012 N4 Mathematics Question Paper

Michael Hoelscher

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