

NATIONAL CERTIFICATE

MATHEMATICS N4

(16030164)

20 November 2024 (X-Paper)

09:00–12:00

Calculators may be used.

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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:

$(1 - j)^2 + (2 + j)^2$

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web if the rate of the forward reaction decreases increases stays the same more products are formed in a chemical reaction at equilibrium the rate of the forward reaction is equal to the rate of the reverse reaction if the rate of the forward reaction increases more products are formed

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web in order to physically measure the rate of consumption of the bisulfite ion we will look for a color change in the reaction vessel the solution will change from clear to dark blue if you have the following equilibrium reaction $\text{CO}_2(\text{g}) + 2\text{H}_2\text{O}(\text{g}) \rightleftharpoons \text{CH}_3\text{OH}(\text{g})$

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web the energy needed for a reaction to occur the minimum amount of energy needed for a reaction to potentially occur the energy added by a catalyst the energy possessed by the products question 5 60 seconds q increase in temperature of the reactants can do one of the following answer choices

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