

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:

$$\frac{1}{\sqrt{1 - j}} - \frac{1}{\sqrt{1 + j}}$$

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**Marcel A. Müller**



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web 1 kesiapan mengelas secara teoritis yaitu pengetahuan yang berhubungan dengan mutu standar dan aturan pengelasan serta mengenai keselamatan dan kesehatan kerja k3 las agar anda dapat memahami lebih detail jenis jenis persiapan ini silahkan pelajari mengenai metode pengelasan baja konstruksi

**las listrik pengertian jenis fungsi dan cara kerjanya pengelasan - Aug 05 2023**

web mar 23 2020 daftar isi untuk jenis las listrik terdiri dari beberapa jenis berikut ini penjelasannya las busur listrik las listrik gas las listrik terak las resistensi listrik jenis mesin las busur listrik dan fungsinya macam macam las busur listrik terbagi menjadi dua bagian yaitu las listrik elektroda tak terumpan dan las listrik

*pengertian las saw submerged arc welding serta peralatan pengelasan - Sep 25 2022*

web jul 26 2021 las busur terendam saw adalah sebuah proses las busur listrik terumpan yang bekerja secara otomatis proses las ini dipatenkan pada tahun 1935 oleh jones kennedy dan rothermund menjadikan proses las saw proses pengelasan otomatis pertama yang berkembang di industri

posisi pengelasan dan cara pengerjaannya cv teknik jaya - Nov 27 2022

web mar 6 2022 posisi pengelasan mendatar posisi yang paling mudah dilakukan adalah flat position atau mendatar ini dikenal juga dengan istilah down hand position yaitu posisi di bawah tangan hal ini memungkinkan seorang welder

mengerjakannya berada di atas benda kerja hasil lasan pada proses ini merupakan pengerjaan yang lebih mudah dan