

## GRADE 10 MATHEMATICS MARCH TEST

### QUESTION 1

1.1 Copy and complete the following table on your answer sheet:  
Only tick in the applicable columns.

(4)

	$\sqrt{2}$	$\sqrt{3}$	$\sqrt{5}$	$\sqrt{7}$	$\sqrt{10}$	$\sqrt{12}$	$\sqrt{15}$
$\sqrt{3} + \sqrt{2}$							
$\sqrt{5}$							
$\sqrt{10}$							
$\sqrt{7}$							

1.2 Determine between which integers the following irrational number lie:

(2)

1.3 Use the ladder method to give the prime factors of 5104.

(5)

### QUESTION 2

Factorise the following expressions:

2.1  $x^2 - 49$

(1)

2.2  $2x^2 - 12x + 10$

(2)

2.3  $4x^2 - 1$

(2)

2.4  $3x^2 + 9x - 12$

(3)

### QUESTION 3

Simplify the following expressions:

3.1  $(x - 5)(3x + 2)$

(2)

3.2  $\frac{1}{x} + \frac{1}{x+1}$

(3)

3.3  $\frac{5x^2 + 25x}{5x}$

(2)

### QUESTION 4

Simplify the following using the exponential laws.

4.1  $\frac{1}{x^3}$

(1)

4.2  $x^0$

(2)

Solve for  $x$ :

4.3  $2^x - 5 = 11$

(2)

### QUESTION 5

Solve for  $x$ :

5.1  $(x - 3)(x + 5) = 0$

(2)

5.2  $3x + 2 = 2x - 1$

(2)

5.3  $\frac{1}{x+1} = \frac{1}{x-1}$

(4)

5.4  $\frac{1+2x}{x} + 5 > 8$

(2)

5.5 Solve  $x$  and  $y$  simultaneously:

$x + y = 10$

$2x - y = 2$

(4)

5.6 Jane is 3 years older than her sister. Together they are 19 years old.

(2)

(2)

### QUESTION 6

6.1 Use the following triangle to determine the trigonometric ratios:



6.1.1

(2)

6.1.2

(2)

6.1.3

(2)

# 2013 Maths Grade 10 March Common Question Paper

**Gerardo Chowell,James M.**

**Hayman,Luís M. A. Bettencourt,Carlos  
Castillo-Chavez**

## 2013 Maths Grade 10 March Common Question Paper:

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**Jacaranda Maths**

**Quest 11 General Mathematics VCE Units 1 and 2 3e learnON and Print** Steven Morris, Michael Sheedy, James Smart, Caitlin Mahony, Brandon Chuah, 2022-12-27 *Mathematical and Statistical Estimation Approaches in Epidemiology* Gerardo Chowell, James M. Hayman, Luís M. A. Bettencourt, Carlos Castillo-Chavez, 2009-06-06 *Mathematical and Statistical Estimation Approaches in Epidemiology* compiles theoretical and practical contributions of experts in the analysis of infectious disease epidemics in a single volume. Recent collections have focused in the analyses and simulation of deterministic and stochastic models whose aim is to identify and rank epidemiological and social mechanisms responsible for disease transmission. The contributions in this volume focus on the connections between models and disease data with emphasis on the application of mathematical and statistical approaches that quantify model and data uncertainty. The book is aimed at public health experts, applied mathematicians and scientists in the life and social sciences, particularly graduate or advanced undergraduate students who are interested not only in building and connecting models to data but also in applying and developing methods that quantify uncertainty in the context of infectious diseases. Chowell and Brauer open this volume with an overview of the classical disease transmission models of Kermack McKendrick including extensions that account for increased levels of epidemiological heterogeneity. Their theoretical tour is followed by the introduction of a simple

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