

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.

	N	N ₁	Z	Q	Q'	X	X'
$\sqrt{9} + 1$							
$\frac{5}{2}$							
0,75/3							
$\sqrt{5}$							

- 1.2 Determine between which integers the following irrational number lies:

$$\sqrt{17}$$

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

Not to scale, not to be used for marking.

QUESTION 2

Factorise the following expressions:

2.1 $x^2 - 49$

2.2 $2x^2 + 5x - 12$

2.3 $6x^2 - 13x + 6$

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

QUESTION 3

Simplify the following expressions:

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

3.2 $6x^2 - 12x + 6$

3.3 $\frac{3x^2 + 12x}{3x}$

QUESTION 4

Simplify the following using the exponential laws.

4.1 $\frac{1}{x^2}$

4.2 $\frac{x^3 \cdot x^2}{x^5}$

Solve for x :

4.3 $2^x - 5 = 11$

QUESTION 5

Solve for x :

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

5.2 $3x^2 + 10x + 7 = 0$

5.3 $\frac{1}{x} + \frac{1}{x+1} = \frac{1}{x+2}$

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

5.5 Solve x and y simultaneously:

$$\begin{cases} x + y = 10 \\ x - y = 2 \end{cases}$$

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

Not to scale, not to be used for marking.

QUESTION 6

6.1 Use the following triangle to determine the trigonometric ratios:



6.1.1

6.1.2

6.1.3

Mathematics Grade 12 March Common Paper 2014

Memorandum

Henry Pettus Randall



Mathematics Grade 12 March Common Paper 2014 Memorandum:

Motivation for Learning and Performance Bobby Hoffman, 2015-06-20 Designed for educators researchers practitioners or anyone interested in maximizing human potential Motivation for Learning and Performance outlines 50 key motivation principles based on the latest scientific evidence from the disciplines of psychology education business athletics and neurology Using a highly applied and conversational style the book is designed to inform the reader about how to diagnosis analyze and mediate learning and performance challenges influenced by motivation The book features chapters on the biopsychology of motivation how motivation changes across the lifespan and the important influence of culture on motivated behavior Three chapters are devoted to practical strategies and the implementation of motivational change Special sections are included on enhancing motivation at work in the classroom in competitive environments and during online education Hoffman employs the innovative approach of using his interviews with real people including many notable personalities across diverse cultures and disciplines to illustrate motivated behavior For example readers will learn what motivated the colossal investment fraud masterminded by Bernie Madoff the intimate thoughts of former NFL superstar Nick Lowery when he missed a field goal and the joys and tribulations of Emmy nominated Curb your Enthusiasm actress Cheryl Hines The book provides a practical applied and multi disciplinary resource for anyone interested in motivation and performance but especially for university students at the graduate or undergraduate level studying education psychology business leadership hospitality sports management or military science Additionally the writing style and eclectic nature of the text will appeal to readers of non fiction who can use the book to gain self awareness to enhance performance of themselves or others Considers motivation for both learning and performance Identifies 50 foundational principles relating to motivation Provides research evidence supporting the foundational principles Includes interviews from famous individuals identifying what motivated them and why Includes research from psychology education neuroscience business and sports Resources in Education ,1988 **Who's who Among Students in American Universities and Colleges** Henry Pettus Randall,1973

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