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MATHEMATICS
(First Paper)

MEMORANDUM

QUESTION 1 [14]

1.1 $x(x+2) = 0$
 $x = 0$ or $x = -2$

1A factorizing
2 CA for each answer

[3]

1.2 $x \leq -2$ or $x \geq 0$; with $x > 0$
 $\therefore x > 0$

2CA for each inequality
(-1) if "<" is used
1CA for selecting correct inequality
Full marks for answer only.

[3]

1.3
$$x = \frac{-(-3) \pm \sqrt{(-3)^2 - 4(2)(-7)}}{2(2)}$$

$$x = \frac{3 \pm \sqrt{65}}{4}$$

 $x = 2.77$ or $x = -1.27$

1A substitution into correct formula

$\frac{2}{3}$ if left in surd form

2CA for each correct answer

[3]

1.4 $1 + 2^{n-2} + 2^{n-1} + 2^n = 53$
 $2^n(2^{-2} + 2 + 1) = 52$
 $2^n = 16$
 $n = 4$

1A for $2^0 = 1$
1A for factorizing
1A for RHS
1CA
1CA

[5]

QUESTION 2 [10]

2.1.1 $(x+1)^2 - 4 = 16$
 $(x+1)^2 = 20$
 $x+1 = \pm\sqrt{20}$
 $x = \pm 2\sqrt{5} - 1$

OR

$(x+1)^2 - 4 = 16$
 $x^2 + 2x - 19 = 0$
$$x = \frac{-2 \pm \sqrt{(2)^2 - 4(-19)}}{2}$$

 $x = \pm 2\sqrt{5} - 1$

1A squaring both sides
1CA for isolating complete square
1M for taking square root
2CA for each answer

1A squaring both sides
1CA simplification
1CA substitution into correct formula

2CA for each answer

[5]

2.1.2 $k = 0$

1A

[1]

Mathematics P2014 Grade 12 Preparatory Memo

Tao Wei



Mathematics P2014 Grade 12 Preparatory Memo:

The book delves into Mathematics P2014 Grade 12 Preparatory Memo. Mathematics P2014 Grade 12 Preparatory Memo is a crucial topic that must be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Mathematics P2014 Grade 12 Preparatory Memo, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:

- Chapter 1: Introduction to Mathematics P2014 Grade 12 Preparatory Memo
- Chapter 2: Essential Elements of Mathematics P2014 Grade 12 Preparatory Memo
- Chapter 3: Mathematics P2014 Grade 12 Preparatory Memo in Everyday Life
- Chapter 4: Mathematics P2014 Grade 12 Preparatory Memo in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, the author will provide an overview of Mathematics P2014 Grade 12 Preparatory Memo. This chapter will explore what Mathematics P2014 Grade 12 Preparatory Memo is, why Mathematics P2014 Grade 12 Preparatory Memo is vital, and how to effectively learn about Mathematics P2014 Grade 12 Preparatory Memo.
3. In chapter 2, this book will delve into the foundational concepts of Mathematics P2014 Grade 12 Preparatory Memo. This chapter will elucidate the essential principles that must be understood to grasp Mathematics P2014 Grade 12 Preparatory Memo in its entirety.
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6. In chapter 5, this book will draw a conclusion about Mathematics P2014 Grade 12 Preparatory Memo. This chapter will summarize the key points that have been discussed throughout the book.
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