

GAUTENG DEPARTMENT OF EDUCATION  
PREPARATORY EXAMINATION

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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]

# Gauteng Preparatory Exam Memo For Maths 2014

**Thomas Griffiths**



## **Gauteng Preparatory Exam Memo For Maths 2014:**

## Unveiling the Energy of Verbal Art: An Psychological Sojourn through **Gauteng Preparitory Exam Memo For Maths 2014**

In a world inundated with monitors and the cacophony of quick conversation, the profound power and psychological resonance of verbal artistry frequently disappear in to obscurity, eclipsed by the regular assault of sound and distractions. Yet, located within the lyrical pages of **Gauteng Preparitory Exam Memo For Maths 2014**, a charming work of fictional splendor that impulses with organic feelings, lies an unique trip waiting to be embarked upon. Written by way of a virtuoso wordsmith, this magical opus guides readers on a mental odyssey, softly revealing the latent possible and profound impact embedded within the elaborate internet of language. Within the heart-wrenching expanse of the evocative analysis, we shall embark upon an introspective exploration of the book is central subjects, dissect its fascinating writing model, and immerse ourselves in the indelible effect it leaves upon the depths of readers souls.

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