

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 2014 Preparatory Mathematics

**KJ Lindholm-Leary**



**Gauteng 2014 Preparatory Mathematics:**

## Enjoying the Track of Phrase: An Mental Symphony within **Gauteng 2014 Preparatory Mathematics**

In a world taken by displays and the ceaseless chatter of instantaneous interaction, the melodic splendor and mental symphony created by the written word usually fade in to the backdrop, eclipsed by the constant noise and interruptions that permeate our lives. Nevertheless, situated within the pages of **Gauteng 2014 Preparatory Mathematics** a charming fictional prize filled with natural emotions, lies an immersive symphony waiting to be embraced. Crafted by an outstanding musician of language, that interesting masterpiece conducts viewers on an emotional trip, skillfully unraveling the hidden tunes and profound impact resonating within each cautiously constructed phrase. Within the depths of this emotional analysis, we will examine the book is central harmonies, analyze their enthralling publishing fashion, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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