

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 Math P1 Memo 2014

**Guillaume Favre**



**Gauteng Preparatory Exam Math P1 Memo 2014:**

This book delves into Gauteng Preparatory Exam Math P1 Memo 2014. Gauteng Preparatory Exam Math P1 Memo 2014 is a crucial topic that must be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Gauteng Preparatory Exam Math P1 Memo 2014, encompassing both the fundamentals and more intricate discussions.

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    - Chapter 2: Essential Elements of Gauteng Preparatory Exam Math P1 Memo 2014
    - Chapter 3: Gauteng Preparatory Exam Math P1 Memo 2014 in Everyday Life
    - Chapter 4: Gauteng Preparatory Exam Math P1 Memo 2014 in Specific Contexts
    - Chapter 5: Conclusion
  2. In chapter 1, the author will provide an overview of Gauteng Preparatory Exam Math P1 Memo 2014. The first chapter will explore what Gauteng Preparatory Exam Math P1 Memo 2014 is, why Gauteng Preparatory Exam Math P1 Memo 2014 is vital, and how to effectively learn about Gauteng Preparatory Exam Math P1 Memo 2014.
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