

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]

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**S Ben Porath**

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