|  |  |  |  |
| --- | --- | --- | --- |
| *1.* | Show that  M1 M1  M1  M1 A1  *Comment: Had been examined earlier and required critical thinking. Well done* |  | |
| *2.* | If , show that .  , M1 Identity    , M1  ,M1 M1  B1  *Comment: Very popular and was picked from the module.* |  | |
| *3.* | If , find .    M1 M1  giving M1  Thus  M1 So  A1 C.A.O  *Comment: Picked from the module, was fairly done.* |  | |
| *4.* | Solve the inequality: .  , M1  ,  A1 inequality  M1 for region table  thus the solution is  A1 for both  *Comment: Many did not follow the rules and the inequality rules were not correctly followed. It is a worked example in the exercise books.* |  | |
| *5* | Given that one root of the equation  is square the  other, without solving the equation, prove that .  let the roots be  and  …(i) M1 and …(ii) M1  Eqn(i) +eqn(ii) M1  , substitute  M1  Thus;  B1 as required.  *Comment: It was the last question done on the blackboard in class and many got the proof correctly.* |  | |
| *6* | Without using tables or calculators, show that        *Comment:Was a popular question but many were punished at the point of rationalizing. Could have used 60 and 45.* |  | |
| *7* | Solve: for  M1 for pythogras identity  , M1 quadratic  M1 factorising  ,  A1 for both    A1 for both angles  *Comment: Was well done but many gave a few angles.* |  | |
| *8* | The perpendicular bisector of the line joining the points  and  meets the x-axis at A and the y- axis at B, prove that the distance .  Mid point is  Gradient of the line is , gradient of bisector is  Equation of bisector is: ,  Point  and  Length of  as required  *Comment: Well done and was a very simple question.* |  | |
| *9a)* | Solve the equation: .  Let ,        *Comment: Was so simple but many feared to use the quadratic formula.* | |  |
| *b)* | By row reduction to the echelon form, solve the simultaneous equations: | |  |
| *10a)* | Express in partial fractions:      Let            ii )  Let        Comment: | |  |
| *b)* | iii)  Let    ,        *Comment: Partial fractions was the best done and most scored question.* | |  |
| *12a)* | Prove that the curve  cannot lie in the region .  ,    For no real roots, , so    ,   |  |  |  |  | | --- | --- | --- | --- | |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  |  |  |   Thus the curve does not lie in the region .  *Comment: Cramming was evident as students also brought in partial fractions.* | |  |
| *b)* | Find the solution set for the inequality:      solution is  *Comment: so many careless mistakes yet this is an example in their books.* | |  |
| *14a)* | Prove that  From the L.H.S      , divide through by  as the R.H.S  *Comment: Well done and was popular, many had different ideas.* | |  |
| *b)* | If , , , prove that  From the L.H.S,          ***Comment: This was highly scored because it had been discussed in several forums.*** | |  |
| *13a)* | When the polynomial  is divided by , the remainder is . Find the values of and  Set , we get  Let ;  When ,  …….(i)  When    , ………(ii)  Thus  and  *Comment: Properly done and enjoyed by the majority.* | |  |
| *b)* | Given that the polynomial  where  is the quotient,  and is the remainder, show that  , when is divided by , hence,  find the remainder when  is divided by , given that  divided by  is 2 and when divided by  is -3.    Let  thus, when  and    Solving, we get,  so    substitute for  we get    Thus  Substituting for  and into , we get      Thus  as required.  Set , we get  and  So,  thus .  *Comment: Very popular although some failed to use the hence, had been asked for the second time this term and is in the modules.* | |  |

*Comments:*

*1. The class is competitive and promising.*

*2. I have tried to push the girls and with some degree of success I thank all those who are doing their best.*

*3. The degree of Laziness is so high and some do not care about their performances.*

*4. Strategies included, serious discussion groups of which some did not attend.*

*5. Weekly tests that were always marked, returned and guides provided.*

*6. Thank you parents for the efforts you put in, sit down with your daughter and analyse all the tests done this term plus the final exam and see the positives and lay strategies for better academic improvement, NEVER GIVE UP.*

*END OF TERM SUMMARY*

|  |  |  |  |
| --- | --- | --- | --- |
| *100 to 90(3 girls)* | *89 to 80(4 girls)* | *79 to 70(5 girls)* | *69 to 60(3 girls)* |
| *59 to 50(17 girls)* | *49 to 40(13 girls)* | *39 to 30(9 girls)* | *29 to 20(9 girls)* |
| *19 to 10(1 girl)* | *Less than 10(1 girl)* | *Total = 65 girls* |  |

*PstnE Pos M MOT EOT*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 1 | 1 | NAKALYOWA ANGEL | **95** | 100 |
| 2 | 3 | ATUHAIRE TUGUME | **83** | 97 |
| 3 | 6 | KASULE HANNAH TALINDA | **73** | 93 |
| 4 | 10 | MIREMBE ESTHER NANGOBI | **64** | 89 |
| 5 | 2 | TUSHABE BECKY MUSIIME | **83** | 86 |
| 6 | 7 | NYAKATO BONOBANA | **71** | 82 |
| 7 | 4 | OWINO SHELAH RUTH | **82** | 80 |
| 8 | 5 | NYANGOMA ZERIDAH | **76** | 77 |
| 9 | 46 | NINSIIMA ANGELLA | **29** | 77 |
| 10 | 22 | WAMALA PHILLIPA | **51** | 73 |
| 11 | 18 | ANKUNDA PATIENCE | **53** | 72 |
| 12 | 51 | BAZIMUDDE JACKIE | **27** | 72 |

*Ninsiima and Bazimudde come into the family but look at their MOT results. Thank you.*