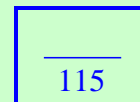


Central Peel Secondary School
Grade 11 AP Mathematics – Final Exam

Mr. N. Nolfi



Pages: 7

Name: _____

Up to 10 marks can be deducted for communication errors.

Time: 2 hours

Page 1 (12 Marks)

1. Several graphs and equations are given below. Match each graph to the most suitable equation. [12]

Page 2 (18 Marks)

2. State whether each of the following is true or false. Provide an explanation to support each response. [18]
- (a) If a statement is true, prove that it is or provide an explanation.
- (b) If a statement is false, provide a *counterexample* or an explanation. In either case, *correct* the statement.

Page 3 (23 Marks)

3. Modelling Periodic Phenomena [8]
4. Transformations [15]

Page 4 (20 Marks)

5. Trigonometric Identities [12]
6. Solving Trigonometric Equations [8]

Page 5 (19 Marks)

7. Polynomial Functions (Remainder Theorem) [4]
8. Long Division of Polynomials with Rational Functions [15]

Page 6 (13 Marks)

9. Rational Inequalities [13]

Page 7 (10 Marks)

10. Surprise! (Involves Exponential Functions) [10]

Assuming that you reserve 15 minutes for checking your responses, how much time should you devote to each page of the final exam?

Page #	Time (Minutes)
1	
2	
3	
4	
5	
6	
7	

Calculations: