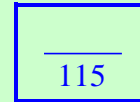


**Central Peel Secondary School**  
**Grade 11 AP Mathematics – Final Exam**

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.

**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: