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**MATHEMATICS  
Methods Units 1 & 2**

**Test 4 – Trigonometric Graphs and Equations**

**Chapter 14**

**Semester 1 2019**

**Section One - Calculator Free**

Time allowed for this section

Working time for this section: 30 minutes

Marks available: 26 marks

## Material required/recommended for this section

##### To be provided by the supervisor

This Question/Answer booklet

Formula sheet

##### To be provided by the students

Standard items: pens, pencils, pencil sharpener, eraser, correction fluid, ruler, highlighters

Special items: Nil

## Important note to students

No other items may be used in this section of the assessment. It is **your** responsibility to ensure that you do not have any unauthorised notes or other items of a non-personal nature in the assessment room. If you have any unauthorised material with you, hand it to the supervisor **before** reading any further.

1. (4 marks)  
   Find the exact value of .
2. (4 marks)   
   Graph for

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1. (4 marks)  
   Given that and , where A and B are acute, find the exact value of

1. (3 marks)  
   Show that
2. (11 marks).   
   Solvethe following equations for the given domain.
3. cos (x) =  for [2]
4. [4]
5. for [5]

**End of Section One**