Week 5
Term 3
2015

Learning Brief

SM2
Trigonometry and Derivatives

Goals

Unit Goals

- use algebraic methods and graphing software to identify the key features of polynomial, rational and trigonometric functions;
- develop mathematical models using the above functions;

This Week

- Solving Trigonometric Equations

Theoretical Components

Resources:
PDF file: Trigonometry Week 5
Text book references:
11 Math Methods sections 6H, 6I
Cambridge Set 4G
YouTube Videos: links found in the pdf file

Knowledge Checklist:

- solve simple trig equations
- state general solutions
- understand the CAS representation of general solutions
- find solutions in restricted domains

http://www.regentsprep.org/Regents/math/algtrig/ATT10/trigequations2.htm

Practical Components

The exercises listed below are from the *Wk 5 Notes and Exercises* on HawkerMaths. Make sure you read the notes and do the exercises in the order presented.

Maths Quest 11 Math Methods
Ex 6H Q1 a) b) c), Q2 a) b) c) d,) Q3 a) b) c), Q4, Q5 a) c), Q7 a) c), Q8 a) b) e) i), Q10

Cambridge 3 Unit
Ex 4G Q4 a) c) d) f) h), Q9 a) b) c) d) e)

Maths Quest 11 Math Methods
Ex 6I Q1, Q2, Q3, Q4, Q6, Q8

Plus *More Modelling Questions* from the notes

Investigation

Complete the Investigation from Week 4

Make sure your present your work neatly.

QFO

Quiz/Forum/Other

There is an on-line quiz this week. The link is;

http://www.quiz-creator.com/qms/quiz.php?u616212q54389v296721088