Pure Mathematics 1

# Chapter 6 Trigonometric Ratios

## 6.1 THE COSINE RULE

Using two of the sides of a triangle and the angle between them, it is certainly possible to represent the length of the third side in a simple or complex way.

Generally speaking, if you have enough time, I would suggest that you try to represent it using your own methods. Here is some

Pythagorean theorem, Vector,

使用向量的证明方法会更直观。而把勾股定理作为已知从而逐步推导的方法在公式上会连贯。

而Cosine Rule表示的则就是第三边与已知两边及其中夹角的关系的。

编写组

## 6.2 THE SINE RULE

## 6.3 AREAS OF TRIANGLES

## 6.4 SOLVING TRIANGLE PROBLEMS

## 6.5 GRAPHS OF SINE, COSINE AND TANGENT

## 6.6 TRANSFORMING TRIGONOMETRIC GRAPHS

## CHAPTER REIVEW 6

Proactively finding or constructing triangles that can use the cosine rule and the sine rule can provide new ideas for solving problems.