

This book has permission to use the "N&K method of COLORS".

Question: You are given the coordinate points  $(-1,3)$ ,  $(3,0)$  and  $(6,4)$ . Prove that they are the vertices of a right angle triangle? Solution 2 (Proof using perpendicularity of lines)

For speed, while solving something similar, only THINK the words in blue; WRITE only the words in other COLORS.

Given: 1) the coordinate points  $(-1,3)$ ,  $(3,0)$  and  $(6,4)$ .

Solve: Prove that they are the vertices of a right angle triangle?

Road Map of Solution:

If it is a right angle triangle, the Pythagorean theorem will work.

i.e. The square of the largest side is equal to the sum of the squares of the two smaller sides.

First Step: Find the length of the sides of the triangle. i.e. the distances between the points.

Second Step: Substitute the values in the Pythagorean Theorem.

First Step: Find the length of the sides of the triangle. i.e. the distances between the points.

