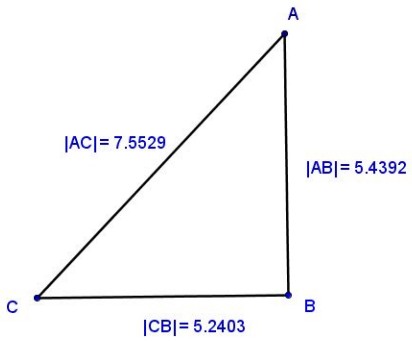
Student Activity Theorem 15

Use in connection with interactive file "Theorem 15" on the Student's CD.



1. Write down the lengths of the following

   |AC| = _____

   |AB| = _____

   |BC| = _____

   Using your calculator find, correct to two decimal places

   (i) $|AC|^2$ = _____ (ii) $|AB|^2$ = _____ (iii) $|BC|^2$ = _____

   Using your calculator find if $|AC|^2 = |AB|^2 + |BC|^2$ Is this true? _____

   Using this result can you write down the measure of the angle ABC.

   $|\angle ABC|$ = _____

2. Drag the point A to a different position.

   Now write down the lengths of the following

   |AC| _____

   |AB| _____

   |BC| _____

   Using your calculator find, correct to two decimal places

   (i) $|AC|^2$ = _____ (ii) $|AB|^2$ = _____ (iii) $|BC|^2$ = _____

   Using your calculator find if $|AC|^2 = |AB|^2 + |BC|^2$ Is this true? _____

   Using this result can you write down the measure of the angle ABC.

   $|\angle ABC|$ = _____

3. Drag the point A to a different position.

   Now write down the lengths of the following

   |AC| _____

   |AB| _____

   |BC| _____

Using your calculator find, correct to two decimal places

(i) $|AC|^2$ = _____ (ii) $|AB|^2$ = _____ (iii) $|BC|^2$ = _____

Using your calculator find if $|AC|^2 = |AB|^2 + |BC|^2$ Is this true? _____

Using this result can you write down the measure of the angle ABC.

$|\angle ABC|$ = _____

4. From the results in questions 1, 2 and 3 what can you conclude.

   Conclusion _____

5. Click on the Tick Box on the interactive file to reveal the wording of this theorem.
   Did you come to this conclusion? _____