Student: ...

## I A story telling

From "Murderous Maths" by Kjartan Poskitt in The Knowledge book serie (1997) :
"The hard boys of maths : Thales
In ancient Greece maths was as popular as pop music or sport is to us today. There was a lot of hot competition to prove and develop basic theories and around 550 BC Thales, an olive-oil tycoon, became a big star by laying down some of the absolute fundamentals. Does this mean he was a bit on the boring side? Not really ... to celebrate one of his discoveries, he went out and sacrificed a bull to the gods! The poor bull lost out after Thales found that any angle in a semicircle (see picture) is always a right angle."


http://en.wikipedia.org/wik i/Murderous Maths

1. Translate the property in French :
2. Give another translation, nearer from our way of writing properties in mathematics lessons :
...
3. Using Tracenpoche in English make a construction showing this property seems to be right.

Some help? Maybe useful buttons are

4. Paste here after a copy of the rendered picture and a copy of the script :

| Picture | Script |
| :--- | :--- |
|  |  |

## II A proof

Let's have a circle which diameter is a segment [AB]. C is a point on this circle.

1. Using a new sheet in Tracenpoche in English make this construction
2. Add the point $O$ center of this circle and call $D$ the symmetric of $C$ respect with $O$.
3. Draw the quadrilateral ACBD.
4. Paste here after a copy of the rendered picture and a copy of the script :

| Picture | Script |
| :--- | :---: |
|  |  |

6. Look at the "Special Quadrilaterals" classification.

What is the nature of ACBD?
7. Justify your answer, in English or in French.
8. Deduce the nature of the ABC triangle.


