

Thales property for English pupils

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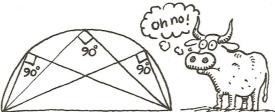
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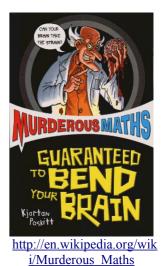
I A story telling

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."





- 1. Translate the property in French :
- 2. Give another translation, nearer from our way of writing properties in mathematics lessons :
- 3. Using <u>Tracenpoche in English</u> 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	L A A A A A A A A A A A A A A A A A A A	- <u>-</u>	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.

