History of mathematics and mathematics education

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Relations between history of mathematics and mathematics education: a case study

Abstract – We will present elements from our PhD work in progress, developed in the context of the SAW – ERC project (Mathematical Sciences in the Ancient World) lead by C. Proust in history of mathematics, and co-tutored by N. Décamp in science education.

On the case of the area of the square, we will present the construction of a classroom experiment based on a dialogue between ancient texts and contemporary textbooks.

The ancient texts will be: a clay–tablet from Nippur (paleo–babylonian period); an excerpt from the Nine chapters and its commentaries (Han dynasty, written on the basis of texts from before the Qin); an excerpt from a VIIth century commentary by Bhāskara, on an Vth century astronomical treatise, the Āryabhaṭīya of Āryabhaṭa.