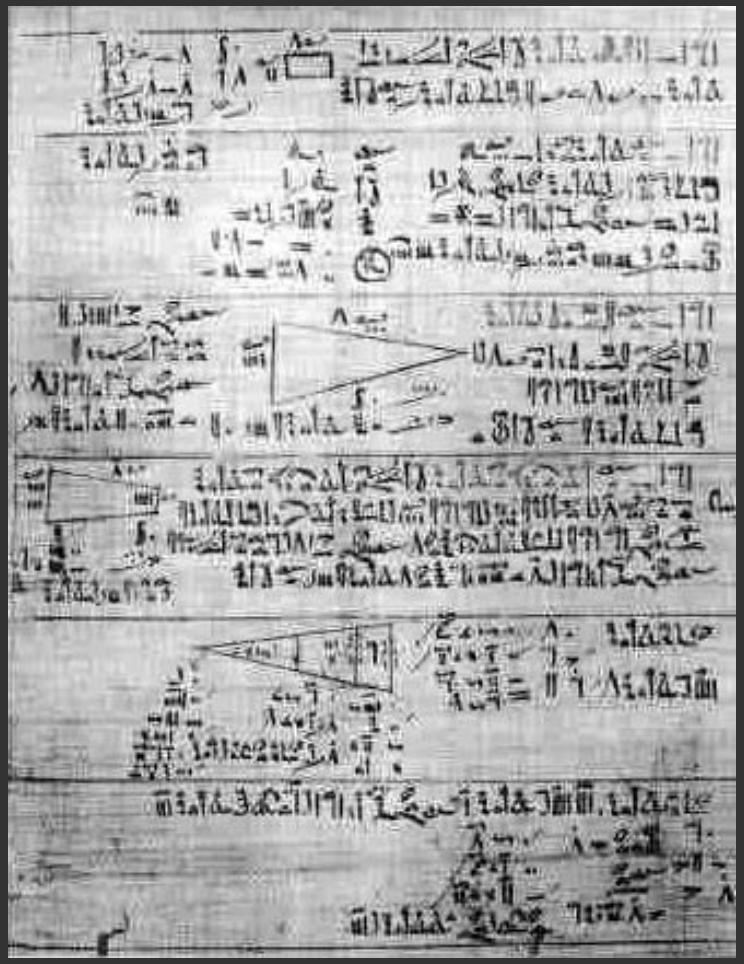
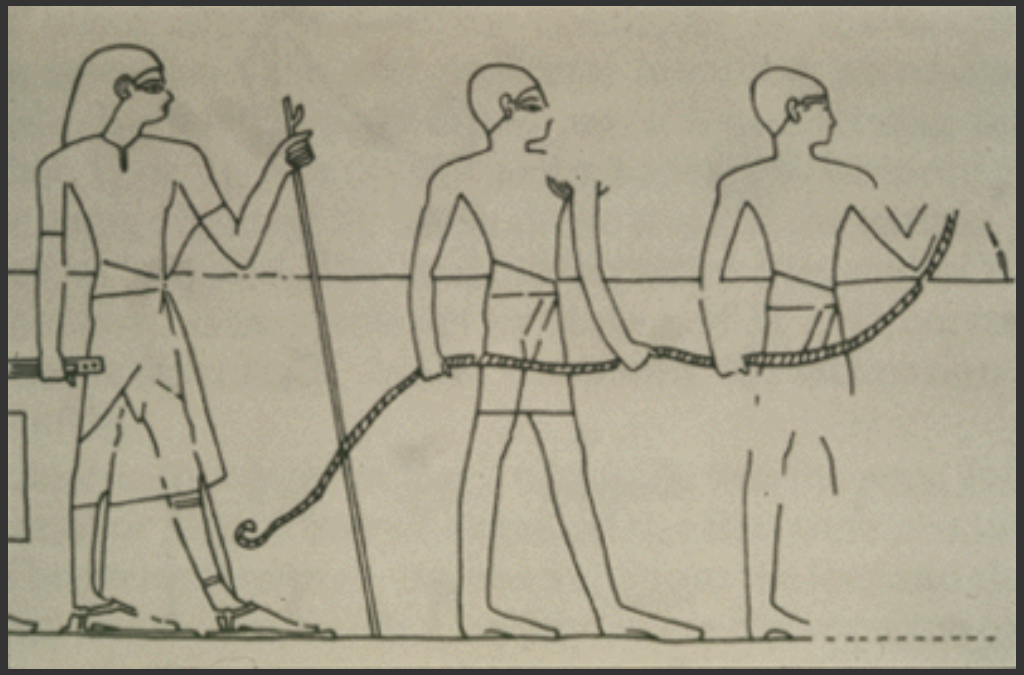
Mathematics Learning:
The Geometer's Sketchpad ®

Early Geometry



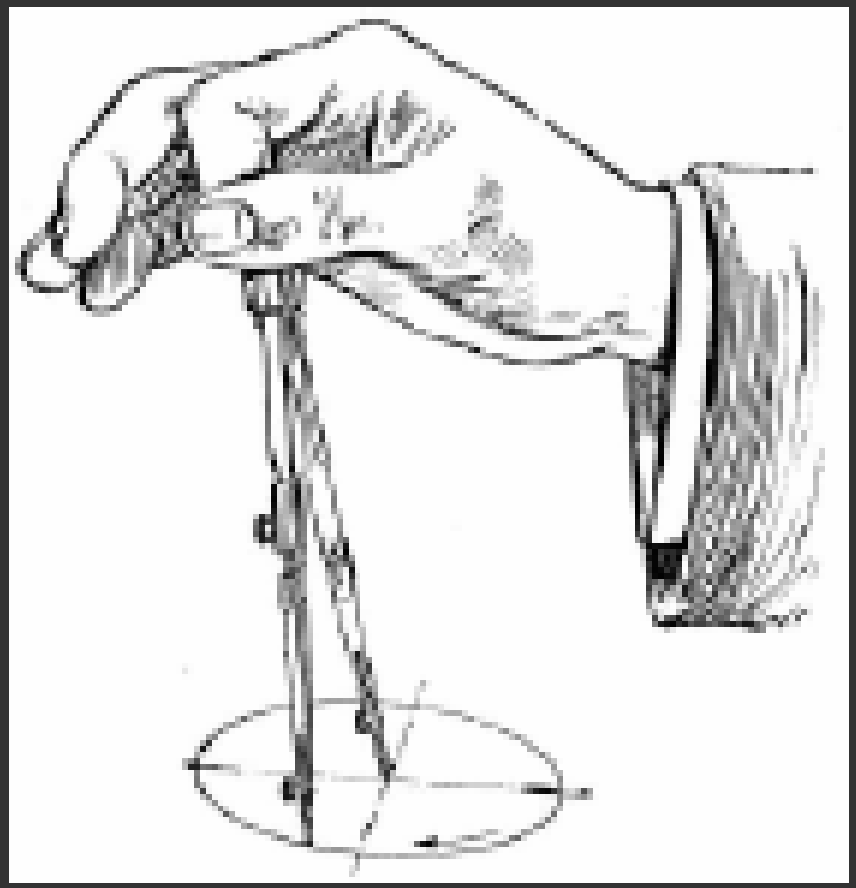
The Rhind Papyrus, http:///library.thinkquest.org/ 25672/areasand.htm

Rope-Stretchers

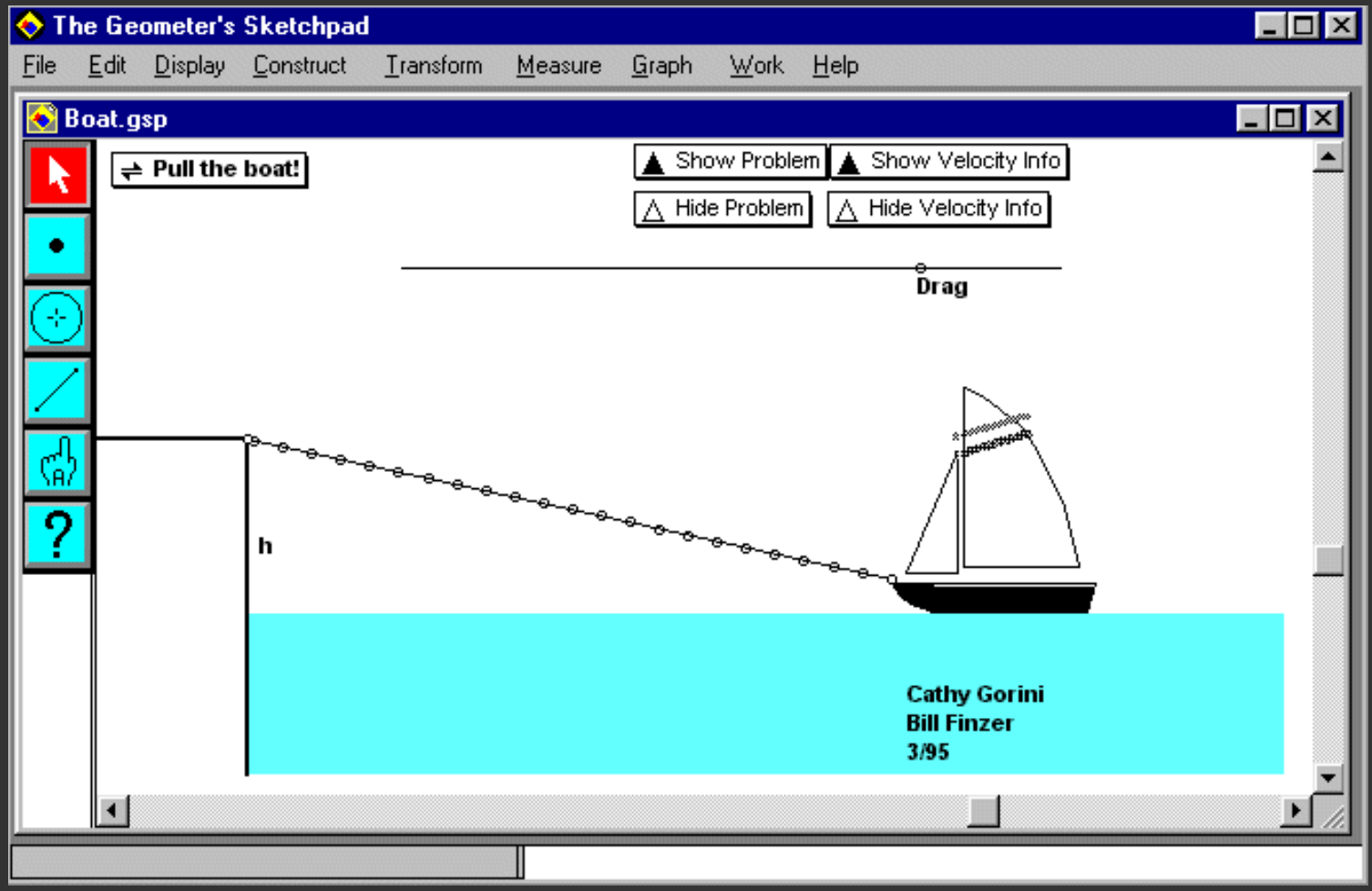


Tompkins, Peter. *Secrets of the Great Pyramid.* p. 22

Compass and Straightedge



Modern “Constructions”



The Geometer’s Sketchpad, Key Curriculum Press

Motivations

“Basic motor skills were keeping students from being able to draw. I thought we needed to have something that allowed people to make the basic constructions. So to me, [Sketchpad] was a drawing tool. You’d make a geometric drawing that was precise and accurate, and scroll over the page to see what was going on.”

Eugene Klotz

“Dragging”

“I remember how shocked I was when I first saw it. [Jackiw] had played with a Macintosh long enough to know that you should be able to drag the vertex or a side of a triangle and protrude the figure. I was flabbergasted. I mean, he made the connection, and I didn’t.”

Eugene Klotz

“Dragging”

“We had just that Fall got into our dragging bit, and were very proud of what we had. We thought, God, people are going to really love this. But [Cabri] had scooped us, and we had scooped them. It was one of these, you know, just amazing things where… maybe you can sort out the exact moment, maybe there was a passing meteor, or something.”

Eugene Klotz

Sketchpad

Ivan Sutherland, Sketchpad Project, MIT, 1963