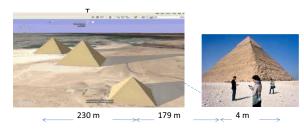
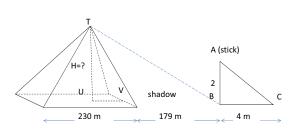


(In his days they were measuring in cubits instead of m; 1cubit = 44.16 cm which is about 1 arm length) He measured the length of the base and the length of the shadow. He then placed a 2 m stick at the end of the shadow and measured its shadow, it was 4 m long.



Since the sun creates equal angles on the ground, we have similar triangles: $\Delta ABC \sim \Delta TUB$;



Since the sun creates equal angles on the ground, we have similar triangles: $\Delta ABC \sim \Delta TUB$;

UV = 230/2 = 115;

so UB = 115 + 179 = 294m

Practice: page 218 # 6-10

