

HINT

ZsaZsa and TseTse present entirely differing viewpoints as to YoYo. Are these viewpoints in conflict, or merely complementary? The two sets of predictions as to yoyo's motion are certainly in conflict. ZsaZsa perceives the puzzle of yoyo's motion in terms of applied torques - a valid dynamical heuristic if all relevant force movements are considered. But why is she in such friction with TseTse? Has she perhaps misapplied this heuristic by an unsuitable choice of point about which to take force moments (torques)? TseTse seems to ignore all forces, and focuses attention only on the construction features of a YoYo. Her prime contention is that yoyo moves to the right, and that this is consistent with

- (i) the constancy of string length
- (ii) the finger end of the string moving to the right

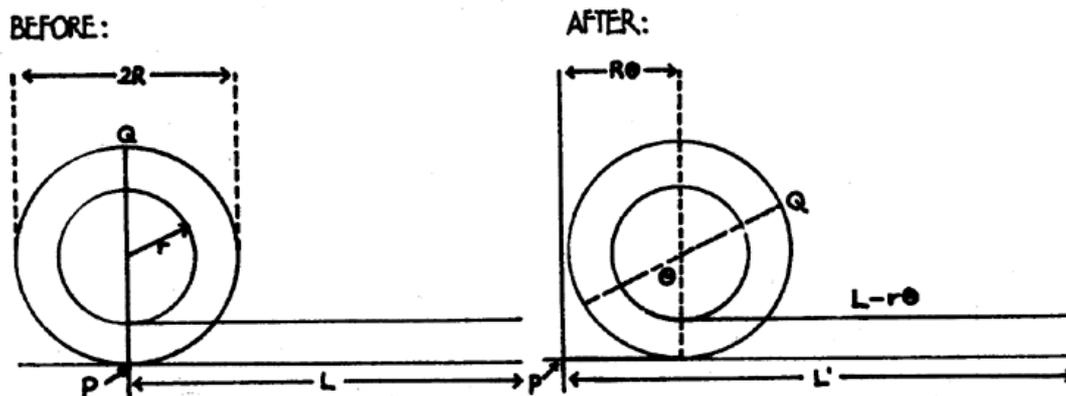
Drawing a picture helps clear details:

TseTse's claim is based on the surprising suggestion that

$$L' > L \text{ (see figure below)}$$

- that despite string take-up in her solution, the far end of the string still moves to the right.

One can ridicule (rubbish) both ZsaZsa and TseTse for overlooking aspects of YoYo, or for pretentious language, but finding fault with either of these two viewpoints - serves to sharpen them, so that ultimately yoyo can be confidently set going in the right way according to either viewpoint. The problem then arises as to how to reconcile the existence of two apparently different viewpoints serving to explain YoYo. Could one bring the two viewpoints into one alone? Could these be a master (or parental) viewpoint according to which the two viewpoints of ZsaZsa and TseTse are just aspects?



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