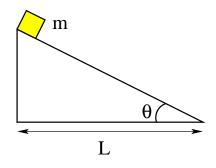
## $[\mathrm{mex100}]$ The shortest path is not the quickest path

A block of mass m slides from rest down a ramp with base of fixed length L as shown. Friction is assumed to be negligibly small. Find the angle  $\theta$  for which the block arrives at the bottom of the ramp in the shortest time.



Solution: