A thin string of length $L=4 \mathrm{~m}$ is tied to a ball at one end, and to a small peg sticking out of a wall on the other end. In this drawing, the paper IS the wall. At a distance $d=2.5$ below the peg is another peg of the same length. The ball is dropped from rest. Determine $v_{1}, v_{2}$, and $v_{3}$.


A child grabs a rope to swing out into a swimming pond. The child lets go of the rope when it is vertical. Determine the child's speed at position 2 (letting go) and 3 (hitting the water).


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