Pendulums—Maximum Speed of the Bob⁷¹

Shown below are six situations where spheres are attached to strings forming pendulums. The pendulums vary in mass and length, but the angles from the vertical are the same for all.

Rank these situations, from greatest to least, on the basis of the maximum speed of the bob at the bottom of the swing. In other words, put first the pendulum whose bob has the greatest speed going through the equilibrium point and put last the pendulum whose bob has the least speed at equilibrium.



Physics Ranking Tasks

Mechanics