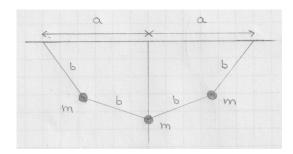
[mex278] Catenary problem I

Consider three small metal spheres of mass m linked by four massless threads of length b each, into a chain an suspended from two fixed which are a distance 2a horizontally apart as shown, assuming a=1m and b=0.7m. Find the vertical distance of all spheres from the ceiling.



${\bf Solution:}$