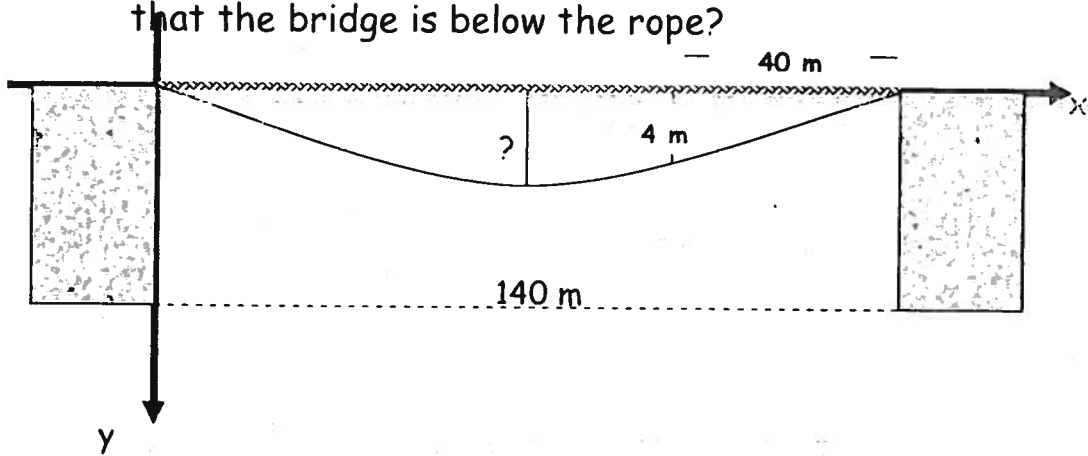


13. Capilano Suspension Bridge near Vancouver, BC, hangs in the shape of a parabola 70 meters over Capilano River. The ends of the bridge are 140 meters apart. A rope is attached and pulled tight at both ends of the bridge. At a point that is 40 meters from one end to the rope, the bridge is 4 meters below the rope. What is the farthest that the bridge is below the rope?



10 marks