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Another bead, B , of mass 0.5 kg is also threaded on the wire. At the point where A has travelled 0.45 m down the wire, it hits B which is instantaneously at rest on the wire. A is brought to instantaneous rest in the collision. The coefficient of friction between B and the wire is 0.275 .

- (b)** Find the time from when the collision occurs until A collides with B again. [6]

[illegible]