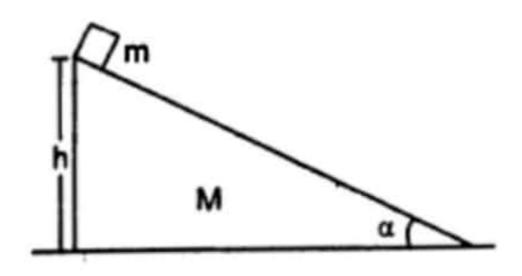
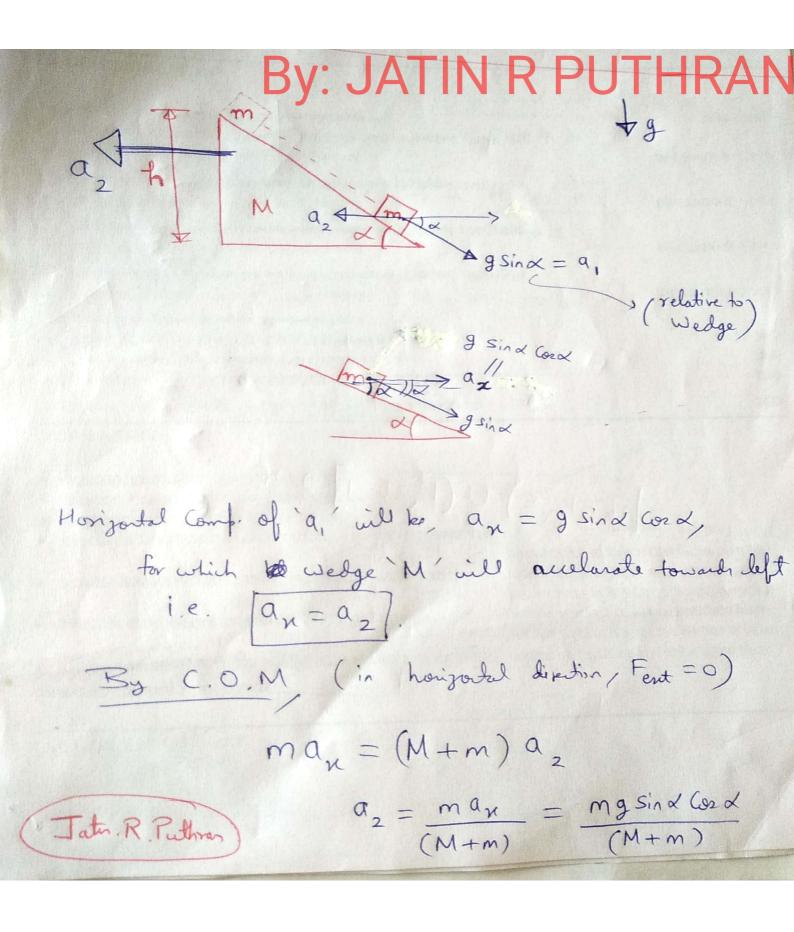
horizontal surface. A block of mass m is placed on the wedge, inclined at an angle α to the horizontal. All the surfaces are frictionless. Assuming that the system was at rest at the initial moment, find the velocity of the wedge when the block slides down the plane through a vertical height h.

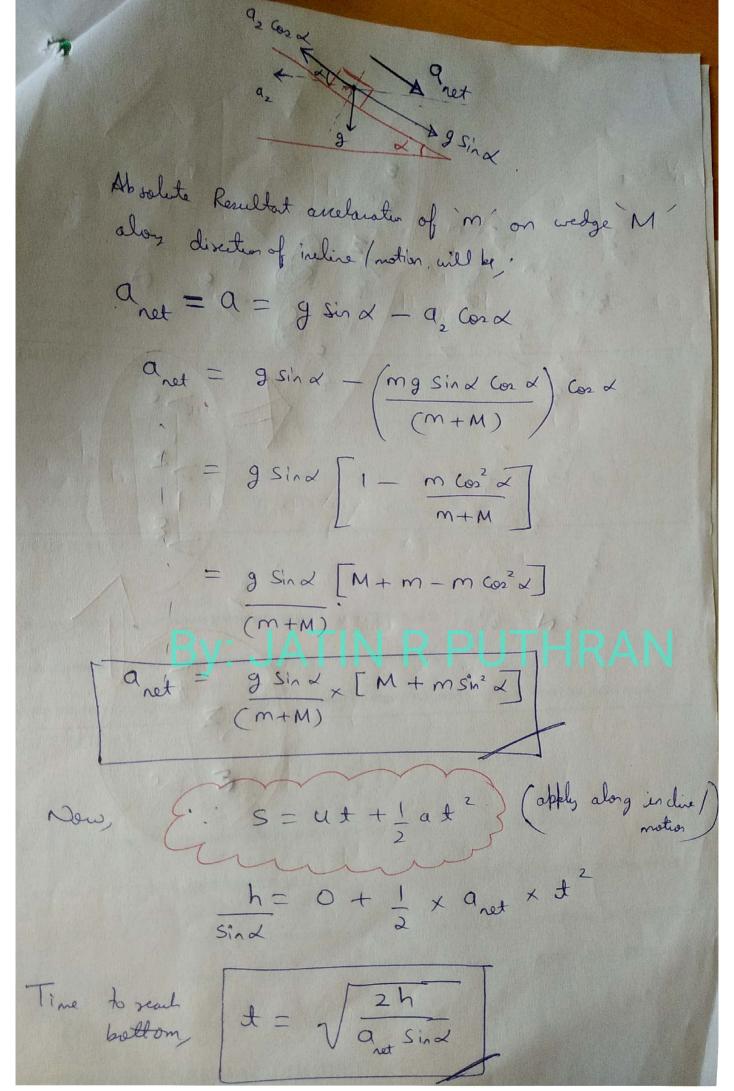
Ans.
$$\left[\sqrt{\frac{2m^2gh\cos^2\alpha}{(M+m)(M+m\sin^2\alpha)}}\right]$$



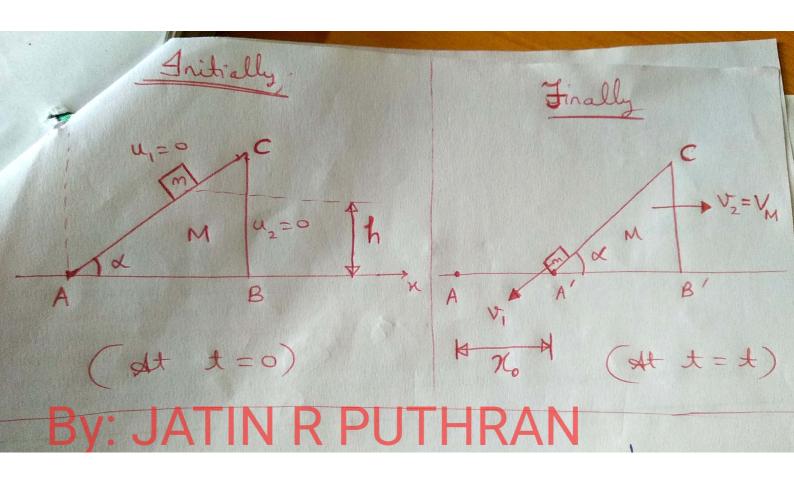
A block of mass m is placed on a triangular block of mass M, which in turn is placed on horizontal surface as shown in figure Assuming frictionless surfaces find the velocity of the triangular block when the smaller block reaches the bottom end.

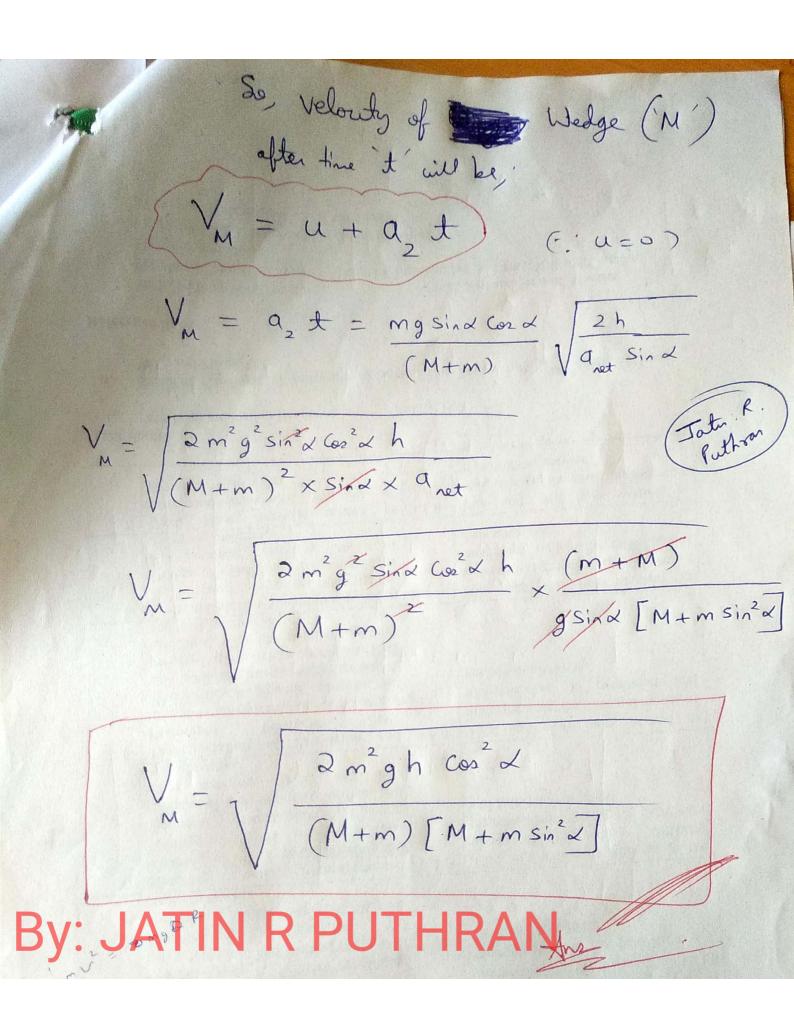






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