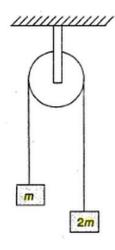
Answer on Question #55340-Physics-Other

Two masses m and 2m are joined to each other by means of a frictionless pulley as shown in figure. When the mass 2m is released, the mass m will ascend with an acceleration of..?

Solution



The net force acting on mass m is

$$(m+2m)a=2mg-mg.$$

Therefore, the acceleration of mass m is

$$a = \frac{mg}{3m} = \frac{g}{3}.$$

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