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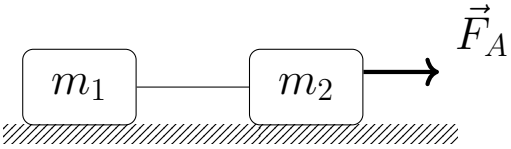

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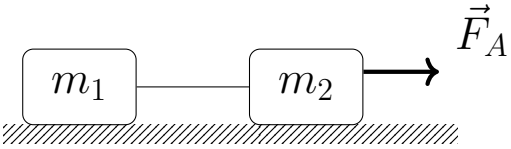
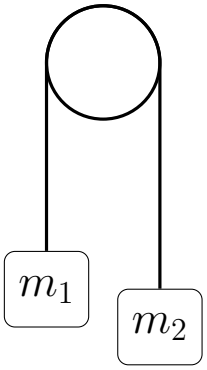


Task #3 Two masses $m_1 = 4$ kg and $m_2 = 2$ kg are attached by a string that hangs over a frictionless pulley. What is (a) the tension on the string and (b) the acceleration of the masses? (This is known as an *Atwood Machine*)



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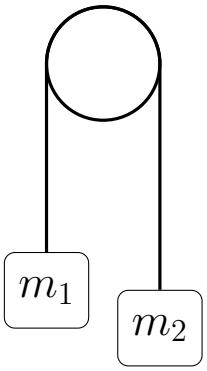
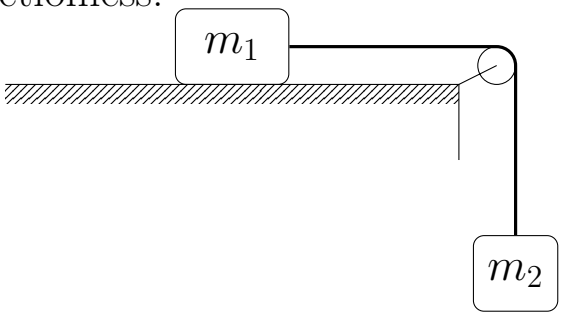


Task #4 We now have what is called a *Modified Atwood Machine* with $m_1 = 4$ kg and $m_2 = 3$ kg. What is (a) the tension on the string and (b) the acceleration of the masses? Again, the surface is frictionless.



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