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These problems allow any student of physics to test their understanding of the use of the four kinematic equations to solve problems involving the one-dimensional motion of objects. You are encouraged to read each problem and practice the use of the strategy in the solution of the problem.

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A classic problem in physics, similar to the one we just solved, is that of the Atwood machine, which consists of a rope running over a pulley, with two objects of different mass attached. It is particularly useful in understanding the connection between force and motion. In Figure \(\text{PageIndex}{6}\), $m_1 = 2.00 \text{ kg}$ and $m_2 = 4.00 \text{ kg}$. Consider the pulley to be frictionless.

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