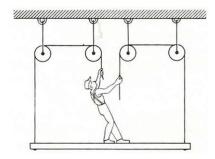
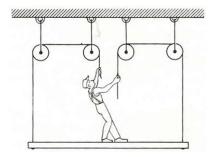
In-Class Problem 9: Painter on a Platform

A painter of mass m_1 stands on a platform of mass m_2 and pulls himself up by two ropes which hang over massless pulleys. He pulls each rope with a force F and accelerates upward with a uniform acceleration a. Find the acceleration a.



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Separate Free Body Diagrams on Plank and Painter

Free Body Diagram on System consisting of Plank and Painter

Lose all information about the internal normal force between painter and plank.