Quiz 3 (20 points

(3) [10 points] An object of mass $m_1 = 4$ kg placed on a *frictionless* incline plane is connected to a string that passes over a pulley and then is fastened to a hanging object of mass $m_2 = 3$ kg as shown below. Consider the string and pulley to be massless and frictionless.

Determine the acceleration of m_2 (g=10 m/s²).

