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web overview newton's laws of motion first law inertia second law $\vec{F}_{net} = m\vec{a}$ third law action reaction pairs gravity $m_1\vec{g}$ $m_2\vec{g}$ $m_3\vec{g}$ $m_4\vec{g}$ $m_5\vec{g}$ $m_6\vec{g}$ $m_7\vec{g}$ $m_8\vec{g}$ $m_9\vec{g}$ $m_{10}\vec{g}$ $m_{11}\vec{g}$ $m_{12}\vec{g}$ $m_{13}\vec{g}$ $m_{14}\vec{g}$ $m_{15}\vec{g}$ $m_{16}\vec{g}$ $m_{17}\vec{g}$ $m_{18}\vec{g}$ $m_{19}\vec{g}$ $m_{20}\vec{g}$ $m_{21}\vec{g}$ $m_{22}\vec{g}$ $m_{23}\vec{g}$ $m_{24}\vec{g}$ $m_{25}\vec{g}$ $m_{26}\vec{g}$ $m_{27}\vec{g}$ $m_{28}\vec{g}$ $m_{29}\vec{g}$ $m_{30}\vec{g}$ $m_{31}\vec{g}$ $m_{32}\vec{g}$ $m_{33}\vec{g}$ $m_{34}\vec{g}$ $m_{35}\vec{g}$ $m_{36}\vec{g}$ $m_{37}\vec{g}$ $m_{38}\vec{g}$ $m_{39}\vec{g}$ $m_{40}\vec{g}$ $m_{41}\vec{g}$ $m_{42}\vec{g}$ $m_{43}\vec{g}$ $m_{44}\vec{g}$ $m_{45}\vec{g}$ $m_{46}\vec{g}$ $m_{47}\vec{g}$ $m_{48}\vec{g}$ $m_{49}\vec{g}$ $m_{50}\vec{g}$ $m_{51}\vec{g}$ $m_{52}\vec{g}$ $m_{53}\vec{g}$ $m_{54}\vec{g}$ $m_{55}\vec{g}$ 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