1 Atwood System

Consider an atwood system with a masless and frictionless pulley. Block A has a mass of \( m_A = 2 \text{kg} \) and block B has a mass of \( m_B = 3 \text{kg} \). If blocks A and B are released from rest,

1) What is magnitude of the acceleration of block A?
2) What is magnitude of the acceleration of block B?
3) How long does block B take to drop by a distance of 2 meters?
4) By what distance block A rises after 4 seconds?