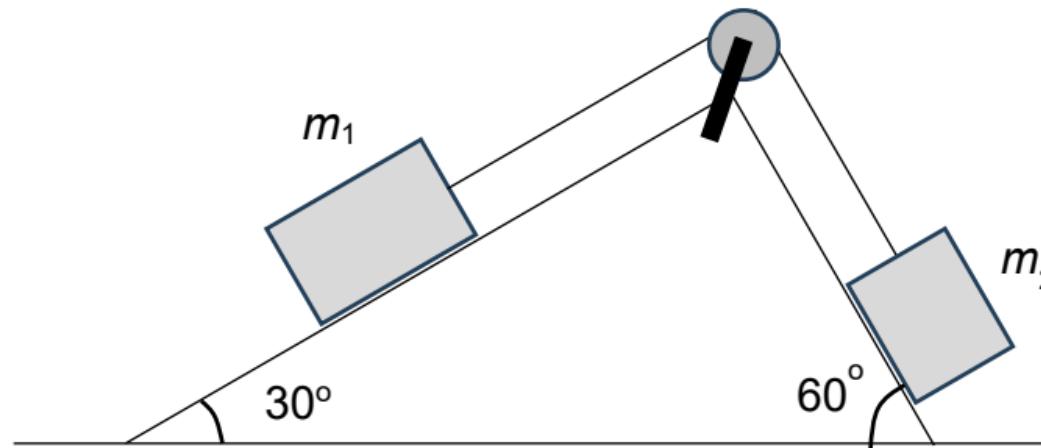


- 7 Two blocks of masses  $m_1 = 4.0 \text{ kg}$  and  $m_2 = 1.0 \text{ kg}$  are connected by a cord of negligible mass that passes over a frictionless pulley of negligible mass. The blocks slide on frictionless planes inclined at angles  $\theta_1 = 30^\circ$  and  $\theta_2 = 60^\circ$ .



What is the tension in the cord?

A 2.3 N

B 5.8 N

C 8.0 N

D 10.7 N

- 8 Two steel balls A and B of masses  $2M$  and  $1M$  respectively move towards each other with the