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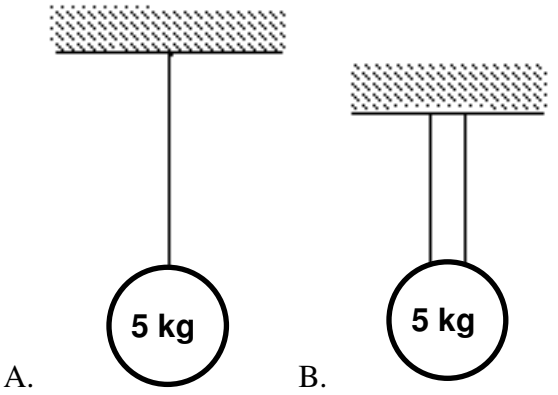
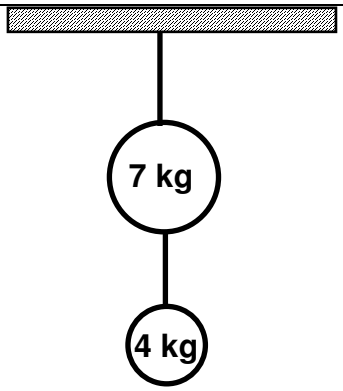
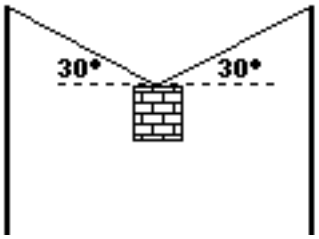
STATICS PROBLEM WORKSHEET II

1 Determine the tension in each cable in case A and case B.	 A. B.
2. Determine tension in each cable.	
3. If the object hung from the cable has a weight of 25 N, what is the tension in the cable?	

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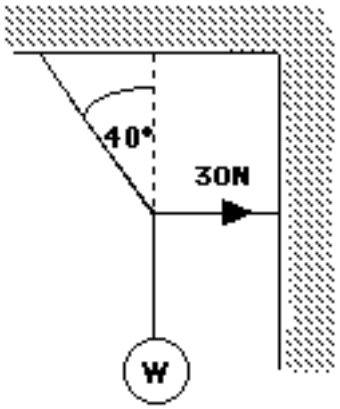
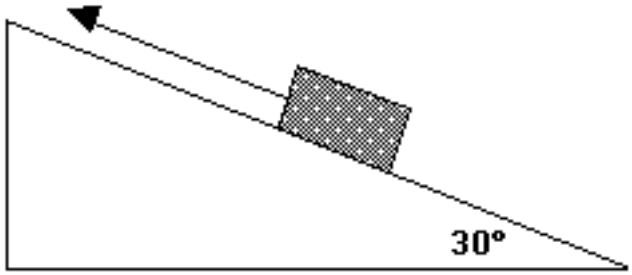
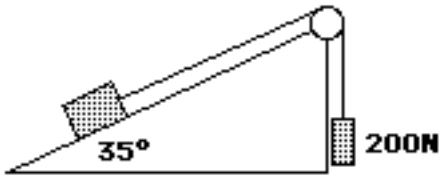
4.	Determine the weight of the ball if the system is in equilibrium. The horizontal part of the cable has a tension force of 30 N towards the right as shown.	
5.	The box on the frictionless ramp is held at rest by a tension force. The weight of the box is 100 N. What is the magnitude of the tension force?	
6.	In the system below the pulley and ramp are frictionless and the block is in static equilibrium. What is the **mass** of the block on the ramp?	

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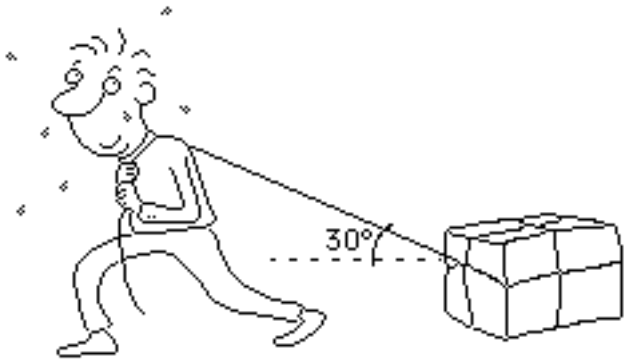
7.	A man pulls a 50 kg box *at constant speed* across the floor. He applies a 200 N force at an angle of 30°. What is the value of the normal force?	
8.	The system is at rest. If the ball weighs 8.0 N, what are the tensions in the ropes?