Physics 20

Pulleys

Part A: Pulleys without friction

1. Determine the acceleration of each of the pulley systems below:
	1. ma = 2.0 kg, mb = 5.0 kg



(4.2 m/s2)

* 1. 

(3.3 m/s2)



(0.78 m/s2)

1. If the pulley systems below accelerates at 1.0 m/s2 in the clockwise direction determine the mass of the unknown block.

(3.1 kg)



(31 kg)

* 1. 

(4.1 kg)

1. The pulley system below accelerates at 2.0 m/s2 clockwise. If the mass of block A is 2.0 kg, what is the mass of block B?



(3.1 kg)

1. Determine the acceleration of the pulley system below:



(2.5 m/s2)