

Chpt. 10 rev 2b

1. A lever is 88% efficient and lifts a box 2.1 m using 55 N of force. What is the weight of the box if the 55 N is exerted over 3.3 m? b) What is AMA and IMA

2. A 77 % efficient ramp is 3.3 m long. What is the height of the ramp if a 55 N force is used to move a 7.7 kg box up the ramp? B) W_i , W_o , IMA?

i

3. A ramp is 4.1 m long and 1.4 m high. What is the effort force if the object being pushed up is 125 kg and the ramp is 85% efficient? What is AMA and W_i ?