

Questions

1. What are the units of the fitting parameters m and b ?

2. Draw a conclusion from comparison of **Measurement #1 with Measurement #3** in Table 1.

3. Draw a conclusion from comparison among **Measurements #2, #3 and #4** in Table 1.

4. The masses of the two blocks shown in Fig. 4 are $m_1 = 51$ kg, and $m_2 = 27$ kg. Ignoring all frictional effects and assuming the pulley to be massless.
- (a) Draw free-body diagrams for the two blocks respectively.
 - (b) Find the acceleration of the two blocks.
 - (c) Find the tension in the cord.

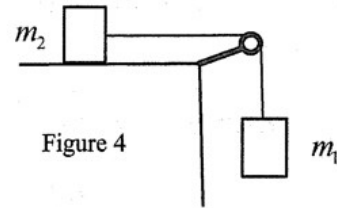


Figure 4