Determine the motor torque constant by attaching weights to the perimeter of the sector pulley, then plotting command voltage versus weight.

- 1. Obtain a set of weights.
- 2. Devise a string system on the sector pulley to support the weights.
- 3. Orient the sector pulley/base so that gravity acts at right angles.
- 4. Adjust your computer output to the motor so that a particular weight is held.
- 5. Vary the weights and record the hold output.
- 6. From the slope, determine the motor constant.
- 7. Compare the experimental constant from that inferred from the technical data.