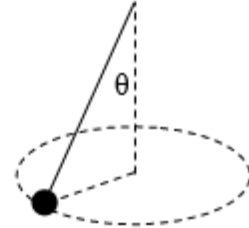


**DIRECTIONS:** Draw a diagram, choose equations, and solve. SHOW YOUR WORK!

\_\_\_\_\_ 1. A 500.0-gram mass attached to a string 32.0 cm long swings in a circle at 33.5 revolutions per second.

- a) Find the tension in the string.
- b) Find the angle.
- c) Find the velocity (m/s).



2. Imagine standing on a balcony and looking down on a person spinning an object around on a string. Below are eight different positions that the person let go of the string. Draw the direction the object will travel for each position.

