PHYS221
Prelab- Experiment # 7
Centripetal force

1. What is the objective of this experiment? 1 pt.

2. What is centripetal acceleration and centripetal force?
Give equation and an explanation. 2 pts.

3. In step 3 of lab procedure, is the weight hanging greater than, less than or equal to the centripetal force determined in step 7 of procedure? Explain. 3 pts.

4. Given the following information, determine centripetal force F_c.
In a 2 minute interval, a bob with mass 150g rotates with a radius of 55 mm for a total of 900 revolutions. See steps 5, 6 and 7 of lab procedure. 4 pts. Show work.