

### **Physics 10154 - Quiz 5A**

A 1.2-kg stone is tied to an 85-cm long string and spun around in a vertical circle so that a revolution is completed every 1.8 seconds. The maximum tension that the string can withstand without breaking is 21 Newtons.

- a) What is the tension in the string at the instant the string is horizontal?
- b) At the bottom of the circular motion, when the string is vertical, does the string break?