Physics 303K Worksheet 11

1. Name (Write legibly! If I can't read your name, you don't get credit for attending.):

2. **A Rubber Band Heat Engine** If the spring constant k depends on temperature $k(T)$, how can you explain the rotation of the wheel while one side is being heated? How is the direction of rotation determined? How does the motion change with different slopes of k(T)? Does conservation of energy hold here? *from Walker's Flying Circus of Physics and Feynman Lectures on Physics*