Rigid Body F=ma Fixed Axis Rot'n: Example 1
This example illustrates a very important principle that you must understand. Two identical 20 lb drums are shown below. A cable wraps around each. From one cable hangs a 10 lb weight B. A 10 lb force is applied to the other. Please determine: (a) The tension in the cord for case 1; (b) The $\alpha$ 's for the drums in both cases.

## Case 1: 10 lb Weight



Case 2: 10 lb Force


Before working this, think about it. Do you think $T_{1}=10$ lbs? Do you think the $\alpha$ 's are the same?



