Math 2260 Quiz 5.5 (Practice)

Name _____

Points will be deducted for untidy or disorganized answers

1. A uniform cable, a foot length of which weighs 2 lb, is used to lift 800 lb of coal at a constant rate up a mineshaft that is 500 ft deep. Find the work required to do this.

2. An aquarium 2 m long, 1 m wide, and 1 m deep is full of water. Find the work needed to pump half of the water out of the aquarium. (You may assume that 1 cubic meter of the water in the aquarium weighs 10,000 N)