

Questions for recitation 26 February 2021

1. Exercises 6.5: #6, 12, 14, 15, 18

Bonus problems to practice reasoning:

2. Water in a hemispherical bowl evaporates at a rate ρ which is proportional to the surface area of the water. Does the height of the water decrease at a constant rate?
3. A 1600 lb elevator is suspended by a 200 ft cable that weighs 2000 lbs. How much work is required to lift the elevator from the basement to the third floor (30 ft)?