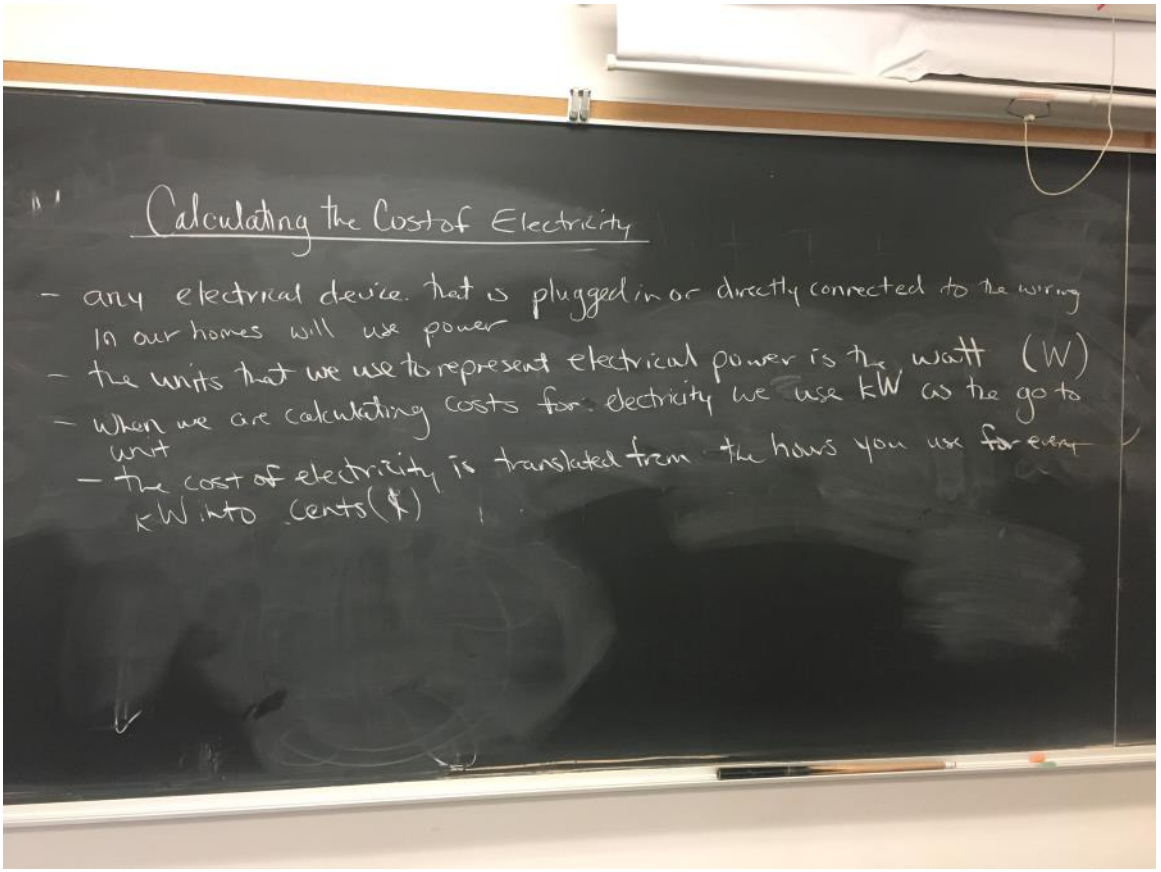
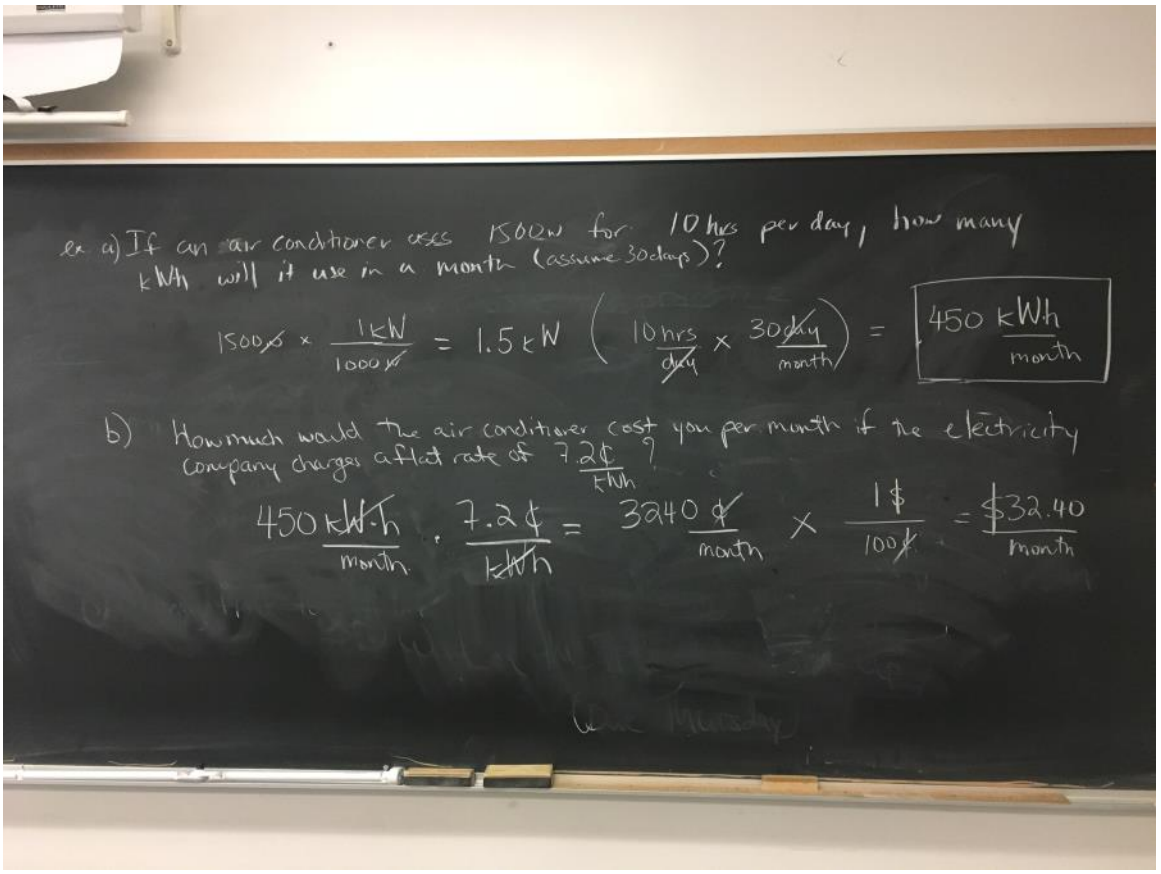
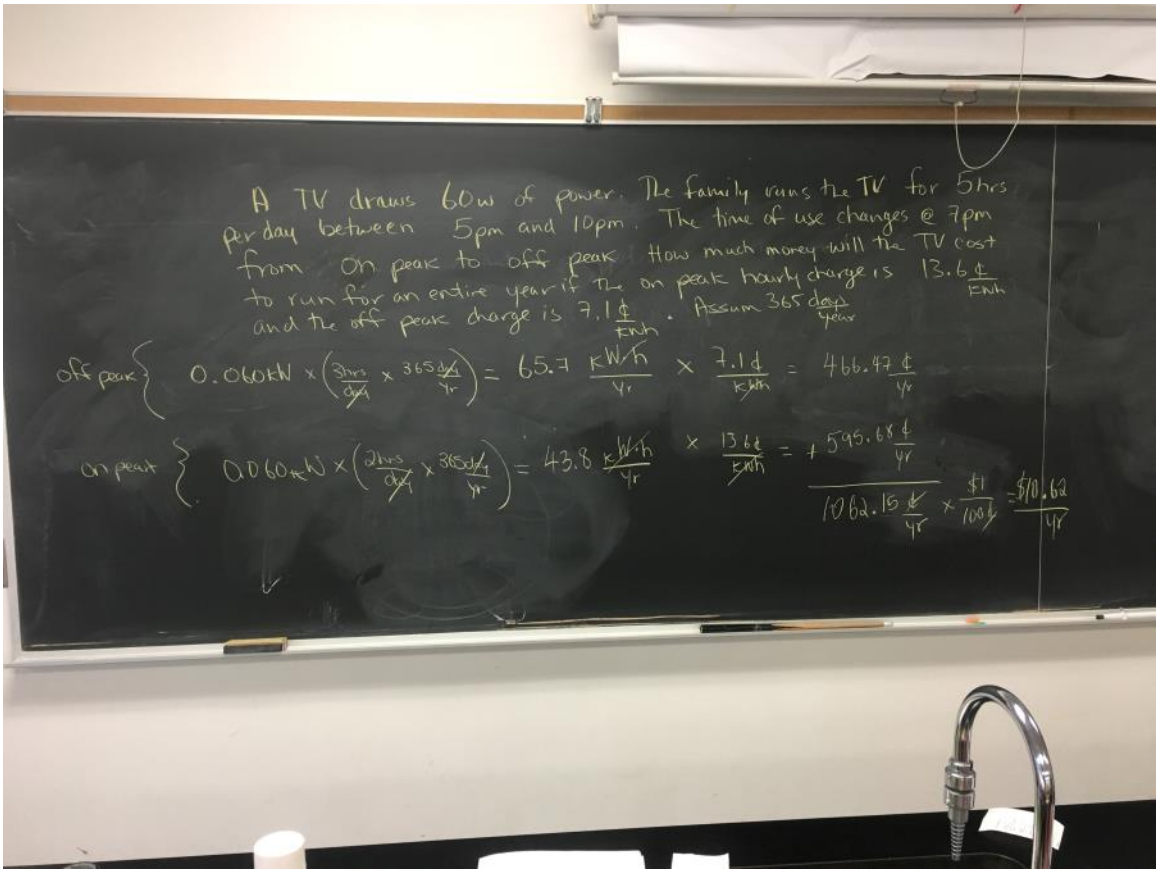
Calculating the Cost of Electricity

December 7, 2017 2:10 PM






A TV draws 60w of power. The family runs the TV for 5hrs per day between 5pm and 10pm. The time of use changes @ 7pm from On peak to off peak. How much money will the TV cost to run for an entire year if the on peak hourly charge is 13.6¢/kWh and the off peak charge is 7.1¢/kWh. Assum 365 days/year
off peak
0.060kW x (3hrs/day x 365 days/yr) = 65.7 kWh/yr x 7.1¢/kWh = 466.47¢/yr
on peak
0.060kW x (2hrs/day x 365 days/yr) = 43.8 kWh/yr x 13.6¢/kWh = + 595.68¢/yr
1062.15¢/yr x $1/100¢ = $10.62/yr