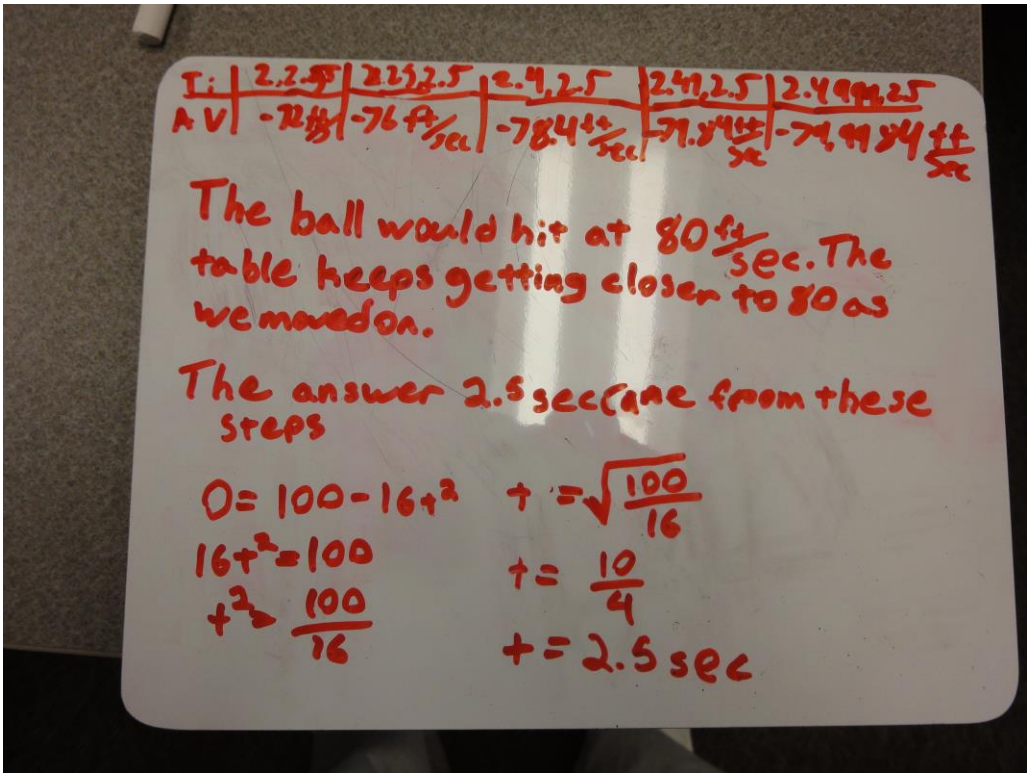
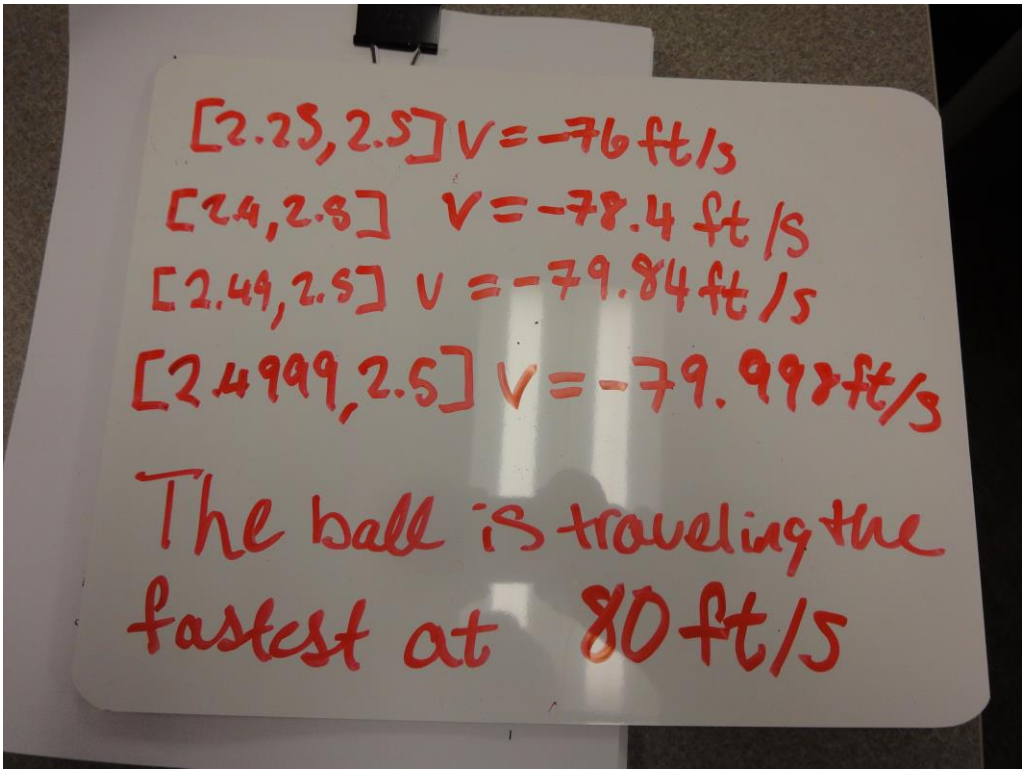
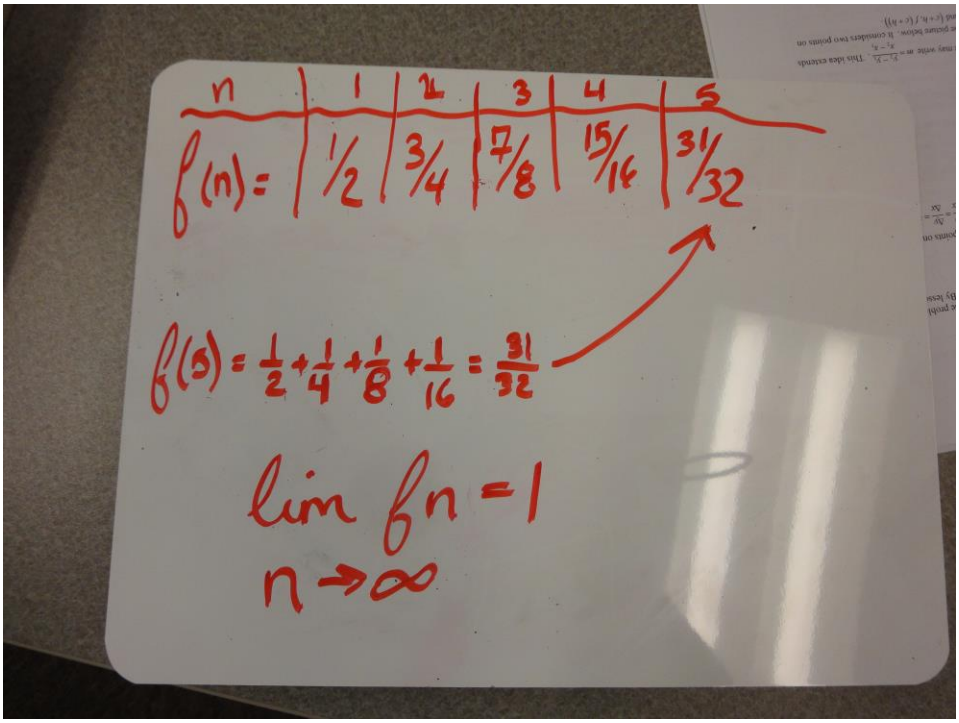
Problem 1:



Another (same idea):

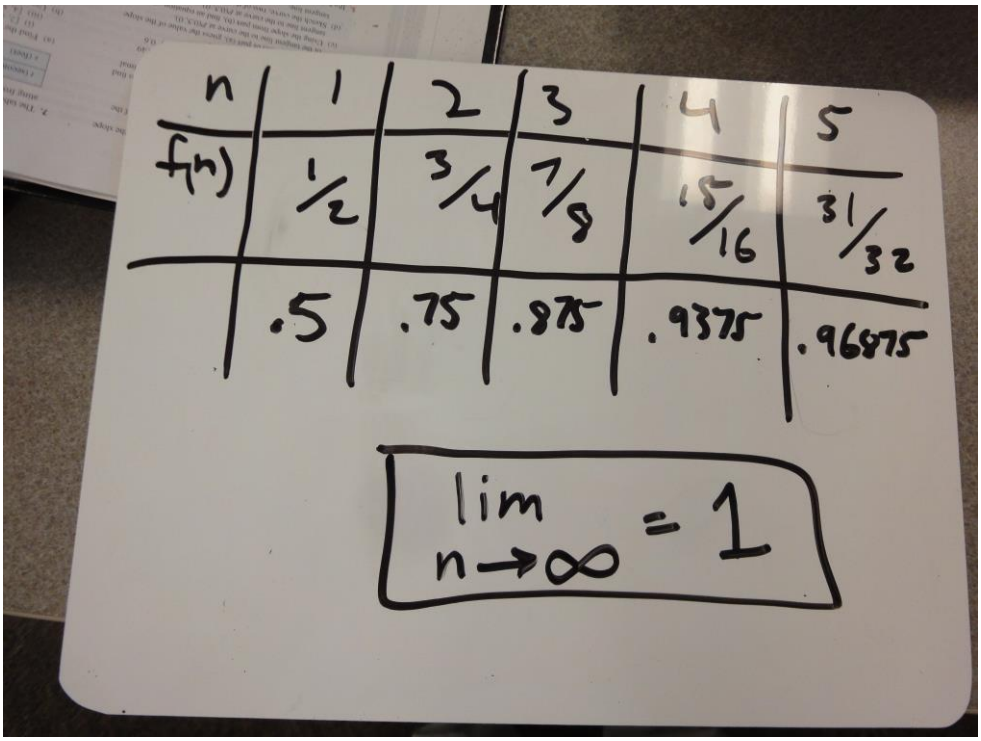


Problem 2:



Note: The f (5) expression should also include 1/32 in the sum (it is missing in the above photo).

Another:



Problem 3 (CN Tower):