CLIM/GGS-319 Air Pollution (HW#1)

1) Given the following data:

t(sec)	u(cm/sec)	u'(cm/sec)
1	470	
2	470	
3	480	
4	470	
5	450	
6	460	
7	450	
8	440	
9	440	
10	420	
11	430	
12	450	
13	460	
14	460	
15	460	

First calculate mean wind speed ($\bar{u}$), wind fluctuations (u'), and mean value of wind fluctuations ($\overline{u'}$). Then briefly comment on each parameter.

2) Match each power plant plume (1-4) to the corresponding atmospheric lapse rate (A-D, solid lines; the dashed line is the adiabatic lapse rate). Then briefly comments on each case

