Altitude, Km	Temperature, ^{o}C	Pressure, Pascal	Saturation Vapor Pressure, Pascal	Vapor Mixing Ratio, Dimensionless
1	25	B	D	F
15	A	C	E	G

1) Attach the problem statement for problem 4.7

2) Develop answers for A, B, C, D, E, F and G. Attach your work. Expressions for temperature as a function of lapse rate and altitude, pressure as a function of altitude, saturation vapor pressure as a function of temperature, and for mixing ratio are in the online notes and in the textbook (Chapters 1, 2, 3 and 4).

3) Using F and G, develop an answer for problem 4.7. Attach your work.

4) Provide a drawing of the process on an altitude versus temperature diagram.