California Lapse Rate Worksheet Pretest

Assume that stable air moves over the land adiabatically, starting at sea level (o' elevation) and that no more water may be added by evaporation after leaving the coast.

Use the following lapse rates:

Dry lapse rate = 5.5°F/1,000 ft. (.55°F/100')
Average lapse rate = 3.3°F/1,000 ft. (.33/100')
Wet lapse rate = 3.0°F/1,000 ft. (.30/100')

Calculate the Temperature and Relative Humidity for each place with a Roman Numeral.

The answers (and how to calculate them) are on the California Lapse Rate Worksheet which is downloadable from the web site and as a handout in class.

Vapor Pressure Tables are also on the web site and as a handout in class.