

ATM 211

Skew-T assignment #3:

Name: _____

Using your Skew-T, solve the following problems:

1. $T = 16^{\circ}\text{C}$, $T_d = 9^{\circ}\text{C}$ at 980 mb

$w =$ _____ $w_s =$ _____ $\text{RH} =$ _____ $\text{LCL} =$ _____ $T_w =$ _____

$\theta =$ _____ $\theta_e =$ _____ $T_e =$ _____

T_{parcel} at 450 mb = _____ T_{parcel} at 250 mb = _____

2. $T = 15^{\circ}\text{C}$, $T_d = -12^{\circ}\text{C}$ at 930 mb

$w =$ _____ $w_s =$ _____ $\text{RH} =$ _____ $\text{LCL} =$ _____ $T_w =$ _____

$\theta =$ _____ $\theta_e =$ _____ $T_e =$ _____

T_{parcel} at 500 mb = _____ T_{parcel} at 800 mb = _____

3. $T = -7^{\circ}\text{C}$, $T_d = -15^{\circ}\text{C}$ at 810 mb

$w =$ _____ $w_s =$ _____ $\text{RH} =$ _____ $\text{LCL} =$ _____ $T_w =$ _____

$\theta =$ _____ $\theta_e =$ _____ $T_e =$ _____

Dewpoint_{parcel} at 750 mb = _____ T_{parcel} at 750 mb = _____