# Quiz Problem on Using skew- $T$ Diagram 

## ATMOS 5300

30 Sep 2022

Your name:
(a) For a parcel with initial properties of $T=15^{\circ} \mathrm{C}, T_{d}=5^{\circ} \mathrm{C}$, and $p=950 \mathrm{mb}$, use your skew- $T$ diagram to find its temperature, dew point temperature, and water vapor mixing ratio at 420 mb .
(b) For the same parcel, find its temperature, dew point temperature, and water vapor mixing ratio at 670 mb if the parcel descends reversibly from 420 mb .
(b) For the same parcel, find its temperature, dew point temperature, and water vapor mixing ratio at 670 mb if the parcel descends pseudo-adiabitically from 420 mb.

