Quiz Problem on Using skew-T Diagram

ATMOS 5300

30 Sep 2022

T 7	
Your	name:

(a)	For a parcel	with initial	properties	of $T =$	15°C,	$T_d = 5$	5°C, an	d p =	950 :	mb
use	your skew- T	diagram to	find its tem	perature	, dew p	point to	empera	ture, ar	nd wa	ater
vap	or mixing rat	tio at 420 ml	о.							

(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.