1. What are the two mechanisms for forming a cloud droplet from water vapor? Which type is more realistic in the Earth's atmosphere and why?

2. Describe the three ways that ice crystals can grow in clouds. What impact does the temperature of the cloud have for each?

3. Given the following skew-T's, determine what type of precipitation might be occurring in each case (the slides from the Skew-T lecture might be helpful).
4. Describe the collision-coalescence process. Why is condensational growth not a sufficient mechanism for droplet growth?

5. Attenuation is a phenomenon that occurs when a radar beam loses power due to an absorbing medium between the radar and its target. Considering what you know about water and its radiative properties, could precipitation act as this absorbing medium attenuating the beam? Explain your reasoning.