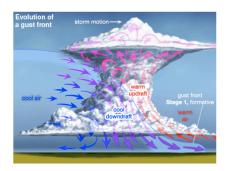
## Homework–Module 4 Name:

1) We learned in Module 3 that adiabatic compression always works to warm sinking air. Yet the thunderstorm downdraft beneath the base of the cloud is usually much colder than the air surrounding it. Explain the apparent paradox using concepts in Chapter 11 of H&P and material in Module 3.

There is a 600-character limit for all questions.

Schematic of the cool downdraft in a severe thunderstorm. Figure Credit: Encyclopedia Briannica.<sup>1</sup>



<sup>&</sup>lt;sup>1</sup> https://media1.britannica.com/eb-media/32/24032-004-75D4F911.jpg