

Homework 1

1. The temperature at a point 50 km north of a station is $3\text{ }^{\circ}\text{C}$ cooler than at the station. If the wind is blowing from northeast at 20 m/s and the air is being heated by radiation at the rate of $1\text{ }^{\circ}\text{C}$ per hour, what is the local temperature change at the station?
2. Draw the plot of the difference between geopotential height and height.