The following data is obtained from a study of the thermal denaturation (unfolding) of a protein:

folded$\leftrightarrow $unfolded

T (oC) %Unfolded

 66oC 18.0

 78.5oC 89.6

a. What are the values of $∆$Ho and $∆$So for the denaturation process? Assume these quantities are constant over this range of temperature.

b. The denaturation temperature is defined as the point where the concentrations of folded and unfolded states are equal. Calculate the temperature.