A container of $n$ moles of an ideal gas has initial volume $V_1$ and temperature $T$. The container is expanded at constant temperature until its volume is $V_2$. In order to keep the temperature constant as the volume is increased, heat must be added. Calculate the amount of heat added. Express your answer in terms of $V_1$, $V_2$, $T$, $n$, and the ideal gas constant.

Answer:_____________________