Which one of these two $C_p$ vs. $T$ plots for NO is correct?
And what value is predicted by the \textit{kinetic theory of gases}?
Remember Phys 101?
$C_p = C_v + R$
Transl: $(3/2)R$
Rot: $(2/2)R$
Vib: $(n-1)R$
Therefore, the minimum value should be 29.1 J/mol/K and the maximum value should be 37.4 J/mol/K... Right?