

In solution to HW 2 Prob. 1.4

Why is there no 3x conversion to α_v (coming from $dv/dt)_p$ relation) from α_l (supplied in problem)?

You are correct, the thermal expansion coefficient that is needed in the final expression is α_V not α_L .

You can find $\alpha_V=3*\alpha_L...$

For a more detailed derivation of this relationship, please go to

Thermal Expansion

I will correct the solutions later...