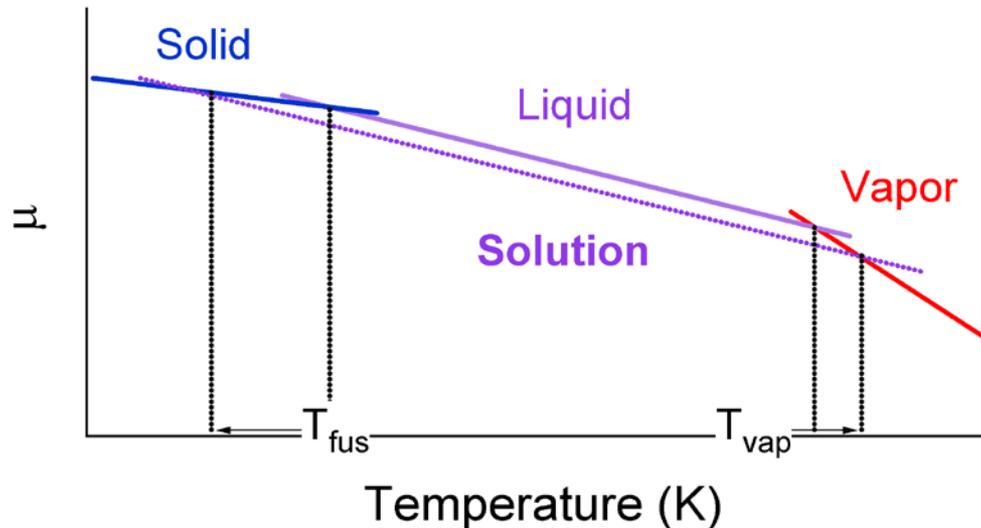


# Question

Which mathematical term explains why the chemical potential of a solution is lowered relative to pure liquid?

- A.  $\Delta_{\text{vap}}H/RT^2 \Delta T$
- B.  $-\Delta_{\text{vap}}H/RT^2 \Delta T$
- C.  $RT \ln a_1$
- D.  $-RT \ln a_1$



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$$\mu_1^{\text{soln}} = \mu_1^* + RT \ln a_1$$

