\[
\Delta G_S = \Delta G_b + \Delta G_R \quad \text{(A)}
\]

\[
\Delta G_T^\ddagger = \Delta G_S^\ddagger + \Delta G_S \quad \text{(B)}
\]

\[
\Delta G^\ddagger = \Delta G_0^\ddagger - \Delta G_R \quad \text{(C)}
\]

\[
\Delta G_T^\ddagger = \Delta G_0^\ddagger + \Delta G_b
\]