



**MathsNET**

A joined up approach to  
teaching and learning  
mathematics

# Maxwell Relations

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- Explain the steps in the derivation of the Maxwell relation shown in the video in your own words
- Follow the steps you have just outlined to derive a Maxwell relation starting from an expression involving infinitesimal changes in the enthalpy
- Follow the steps you have just outlined to derive a Maxwell relation starting from an expression involving infinitesimal changes in the Helmholtz free energy
- Follow the steps you have just outlined to derive a Maxwell relation starting from an expression involving infinitesimal changes in the Gibbs free energy.