

Distinguish, differentiate, compare and explain what is the difference between two hinged and three hinged arches. Comparison and Differences.

Differences between Two Hinged Arches and Three Hinged Arches

S.No.	Two Hinged Arches	Three Hinged Arches
1	Statically indeterminate to first degree.	Statically determinate.
2	Might develop temperature stresses.	Increase in temperature causes increases in central rise. No stresses.
3	Structurally more efficient.	Easy to analyse. But, in construction, the central hinge may involve additional expenditure.
4	Will develop stresses due to sinking of supports.	Since this is determinate, no stresses due to support sinking.