## NPTEL

## NPTEL ONLINE CERTIFICATION COURSE

Discrete Mathematics Graph Theory - 1

**Cut vertex** 

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Look at this graph (Refer Slide Time: 00:05)



and look at this node X (Refer Slide Time: 00:11)



if you were to remove this node X, the graph becomes disconnected, (Refer Slide Time: 00:13)



which otherwise is connected, (Refer Slide Time: 00:16)



such a vertex is called a cut vertex, (Refer Slide Time: 00:21)



now can you define what could be a cut edge?

(Refer Slide Time: 00:24)



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