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Menelaus theorem – its investigation and application.

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Summary: We prove Menelaus theorem in three ways. Also, the necessity of this theorem in n -gon is felt and finally clever and simple proofs of the famous Desargues theorem as well as of Robertsimson theorem have been given by using this generalized Menelaus theorem.

Classification: G40 A30

Keywords: Menelaus' theorem; theorem promotion; Desargues' theorem; Simson's theorem; proof
<http://www.pphmj.com/abstract/8417.htm>