

Choice Theorem

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Theorem 5.1. Given a triangle ABC , and extending sides AB through point B and CB through point B , angle ABD and angle CBE are congruent.

Proof. Let ABC be a triangle. Extend side AB through point B and extend side CB through point B . Let E be a point on the extended side AB after point B . Also let D be a point on the extended side CB after point B . Let ABD and CBE be angle. By the Vertical Angles Theorem, angles ABD and CBE are congruent.

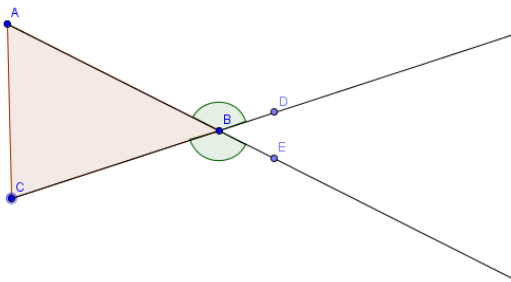


Figure 1: Triangle ABC

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Refereed by Charlotte Brandenburg