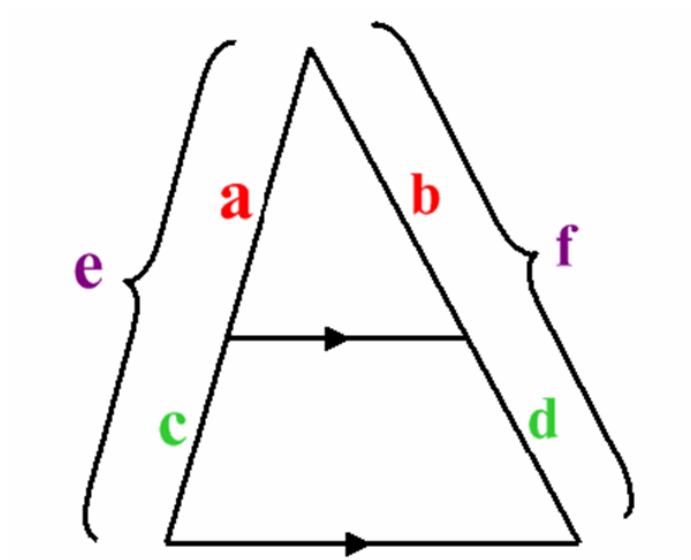


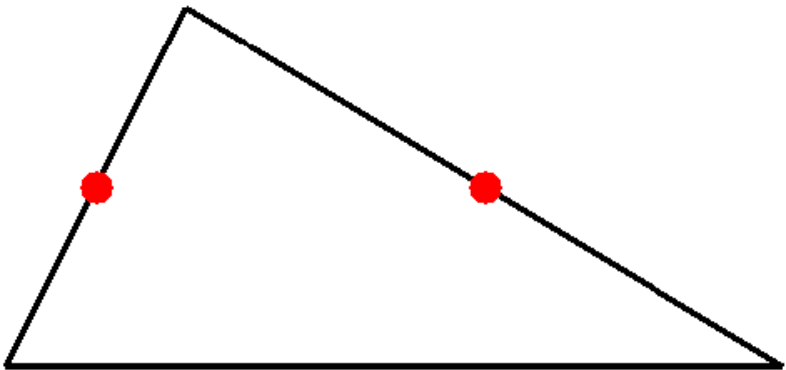
Th. 7.5 The Δ proportionality Th.

If a line is $\parallel$ to 1 side of a Δ and intersects the other 2 sides in 2 distinct pts, then it separates those sides into segments of proportional length.



Th. 7.6

If a line intersects 2 sides of a $\triangle$ and separates the sides into corresponding segments of proportional lengths, then the line is $\parallel$ to the 3rd side.

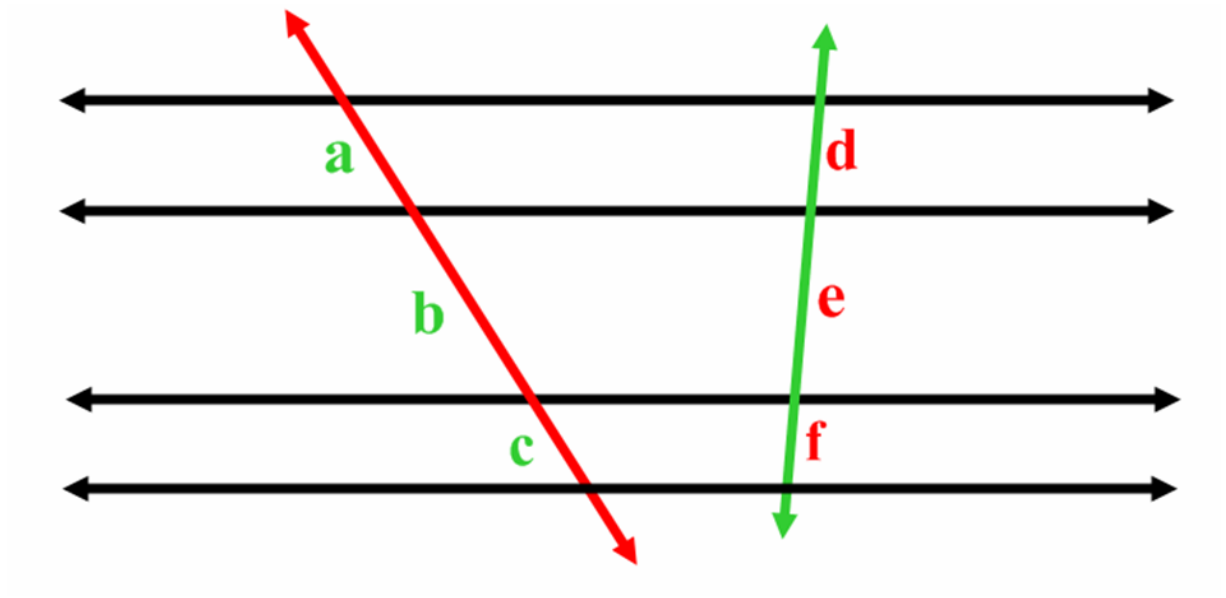


Th. 7.7 Δ Midsegment Th.

A segment whose endpoints are the midpts. of 2 sides of a Δ is $\parallel$ to the 3rd side and its length is one-half the length of the 3rd side.

Cor. 7-1

If 3 or more $\parallel$ lines intersect 2 transversals, they cut off the transversals proportionally.



Cor. 7-2

If 3 or more $\parallel$ lines cut off $\cong$ segments on 1 transversal then they cut off $\cong$ segments on every transversal.

