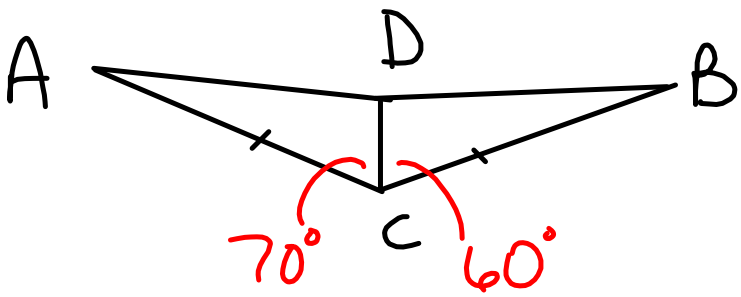
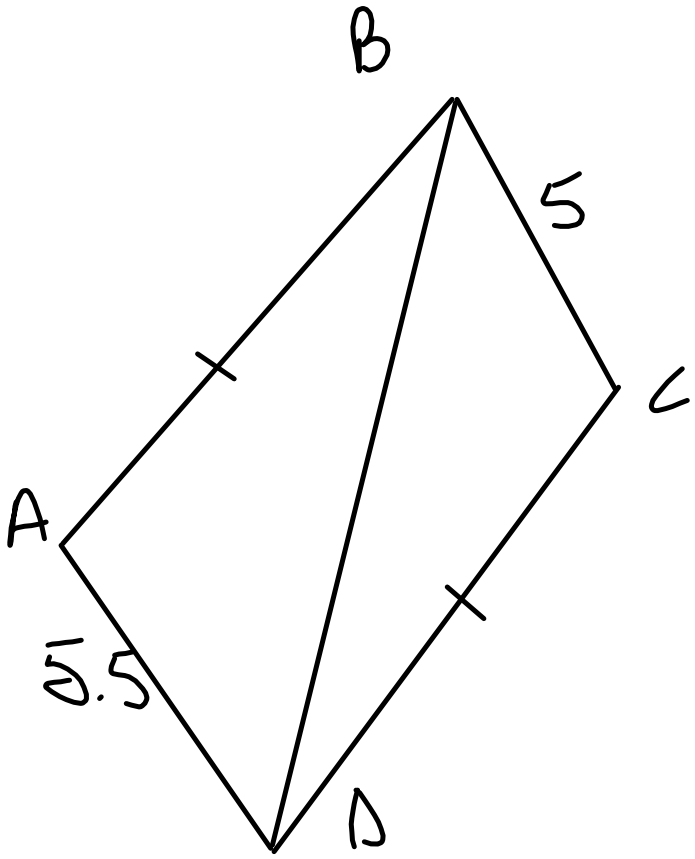
Th. 5.13 The Hinge Th.

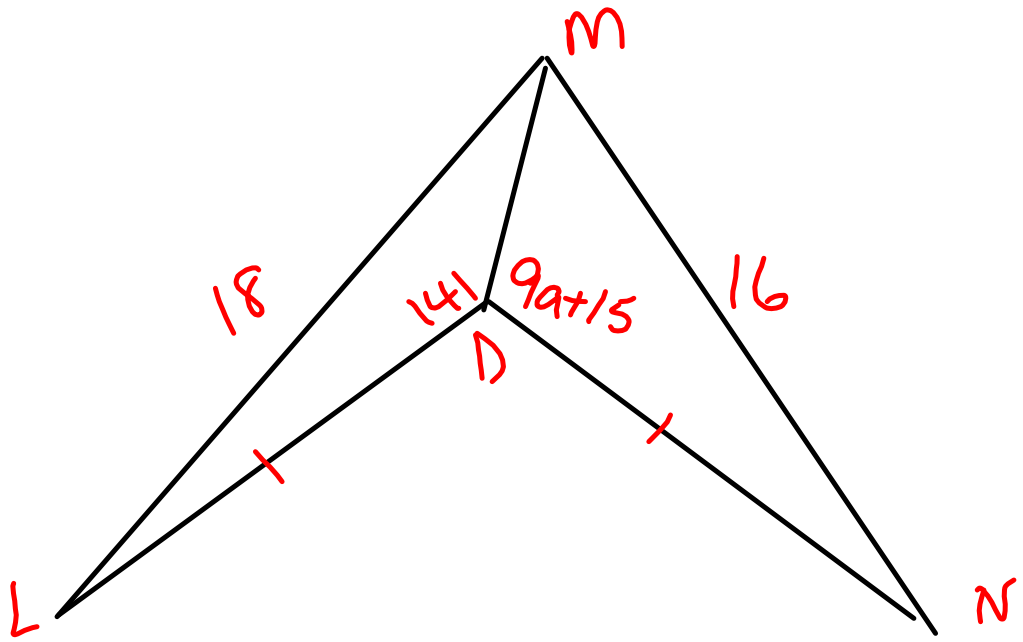
If 2 sides of 1 Δ are $\cong$ to 2 sides of a 2nd Δ, and the included $\angle$ in the 1st Δ is greater than the included $\angle$ in the 2nd Δ, then the 3rd side of the 1st Δ is greater than the 3rd side of the 2nd Δ.

Th. 5.14 The Converse of the Hinge Th.

If 2 sides of 1 Δ are ≅ to 2 sides of a 2nd Δ, and the 3rd side of the 1st Δ is greater than the 3rd side of the 2nd Δ, then the included ∠ of the 1st Δ is greater than the included ∠ of the 2nd Δ.


A
D
B
C
70°
60°


B
5
C
A
5.5
D


M
18
14
9a+5
16
D
L
N