

Chapter 1

1.

- $\triangle ABC$: $[AB] \cong [AC]$

$$\Rightarrow \boxed{\triangle ABC \text{ } A}$$

- $\triangle ABC$: $\angle B \cong \angle C$

$$\Rightarrow \boxed{\triangle ABC \text{ } A}$$

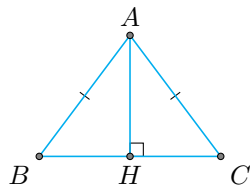
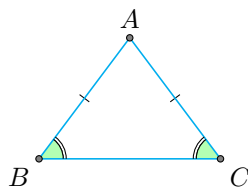
- $\triangle ABC$:

$$[AH] \perp BC$$

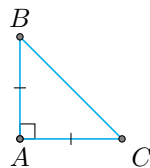
$$\angle A$$

$$[BC]$$

$$\Rightarrow \boxed{\triangle ABC}$$



2.

$\triangle ABC$
 $\triangle ABC \quad A : \quad \hat{A} = 90^\circ$
 $\Rightarrow \boxed{\triangle ABC \quad A}$


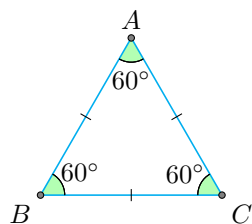
3.

 $\triangle ABC$

- $[AB] \cong [BC] \cong [AC]$

 $\Rightarrow \boxed{\triangle ABC}$

- $\triangle ABC \quad \hat{A} = \hat{B} = \hat{C}$

 $\Rightarrow \boxed{\triangle ABC}$


- $\triangle ABC \quad \widehat{A} = 60^\circ$

$$\Rightarrow \boxed{\triangle ABC}$$

4.

- $\triangle ABC \quad \widehat{A} = 90^\circ$

$$\Rightarrow \triangle ABC \quad A$$

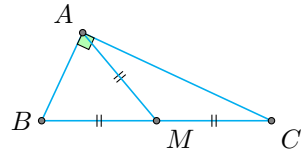
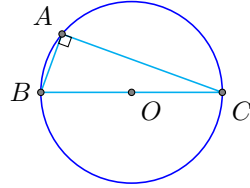
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- $\triangle ABC$

$$[AM]$$

$$[AM] = \frac{[BC]}{2}$$

$$\Rightarrow \triangle ABC \quad A$$



5.

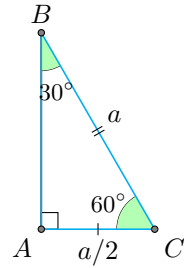
- $\triangle ABC \quad A$

$$\widehat{B} = 30^\circ \quad (\widehat{C} = 60^\circ)$$

$$\Rightarrow \boxed{\triangle ABC}$$

- $\triangle ABC \quad |AC| = \frac{|BC|}{2}$

$$\Rightarrow \boxed{\triangle ABC}$$



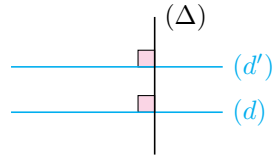
1.

$$\begin{aligned} (d) \parallel (\Delta) & \Rightarrow \boxed{(d) \parallel (d')} \\ (d') \parallel (\Delta) & \end{aligned}$$

_____ (d')
 _____ (d)
 _____ (Δ)

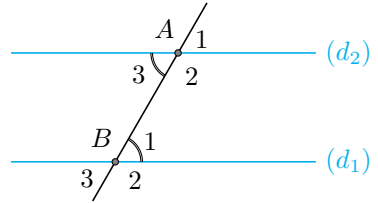
2.

$$\begin{aligned} (d) \perp (\Delta) \\ (d') \perp (\Delta) \end{aligned} \implies \boxed{(d) \parallel (d')}$$



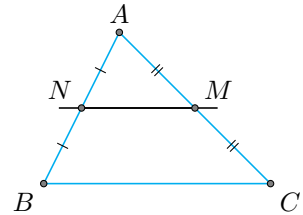
3. $(d) \parallel (d') \quad (\Delta)$

$$\begin{aligned} \widehat{A_1} = \widehat{B_1} &\implies (d) \parallel (d') \\ (\widehat{A_3} = \widehat{B_1}) & \quad () \\ (\widehat{A_2} + \widehat{B_1} = 180^\circ) & \quad () \end{aligned}$$



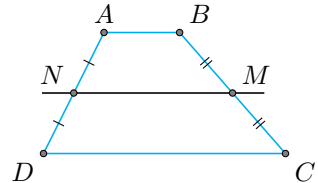
4.

$$\begin{aligned} &ABC \\ M \quad [AC] \\ N \quad [AB] \end{aligned} \implies (MN) \parallel (BC)$$



5.

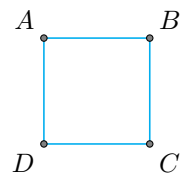
$$\begin{aligned} &\bullet \triangle ABC \\ &[MN] \\ \implies &(MN) \parallel (BC), \quad |MN| = \frac{|BC|}{2} \end{aligned}$$



$$\begin{aligned} &\bullet ABCD \\ &[MN] \implies \begin{cases} [MN] \parallel [AB] \parallel [CD] \\ |NM| = \frac{|AB| + |CD|}{2} \end{cases} \end{aligned}$$

6. $()$

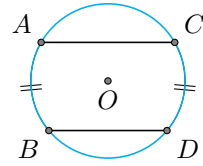
$$\begin{aligned} &ABCD \\ &() \\ \implies &[AB] \parallel [CD] \end{aligned}$$



7.

(S)

$$\smile AB \cong \smile CD \implies [AC] \parallel [BD]$$



8.

- $(D), (D')$ $\angle xoy$

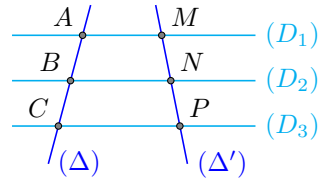
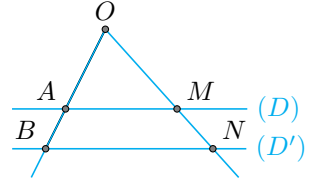
$$\frac{|OA|}{|OB|} = \frac{|OM|}{|ON|}$$

$$\implies (D) \parallel (D')$$

- $(D_1), (D_2), (D_3)$ (Δ)

$$(\Delta') \quad \frac{|AB|}{|AC|} = \frac{|MN|}{|MP|}$$

$$\implies (D_1) \parallel (D_2) \parallel (D_3)$$



1.1