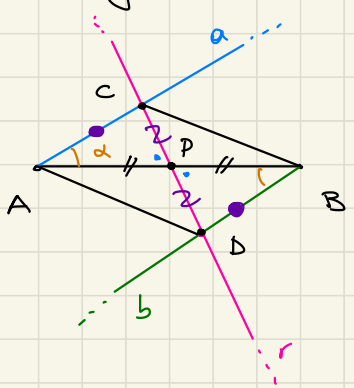
# Es 63 Pag 675 Proposto da "Io"




**HIP**: $a\hat{A}B \cong b\hat{B}A$
$AP \cong PB$

**TH**: $A\hat{C}P \cong P\hat{D}B$ (1)
$P\hat{C}B \cong A\hat{D}P$ (2)

(1) Considero i triangoli $A\hat{P}C$ e $B\hat{P}D$

$C\hat{A}P \cong D\hat{B}P$ per Hip
$A\hat{P}C \cong B\hat{P}D$ perché opposti al vertice
$AP \cong PB$ per Hip

$\Rightarrow$ II crit $\Rightarrow$ $A\hat{P}C \cong B\hat{P}D$

Dato che i triangoli sono congruenti ho che $A\hat{C}P \cong P\hat{D}B$

(2) Considero $A\hat{D}P$ e $P\hat{B}C$

$AP \cong PB$ Hip
$PC \cong PD$ Per dim prec.
$A\hat{P}D \cong C\hat{P}B$ Oppost. al vertice

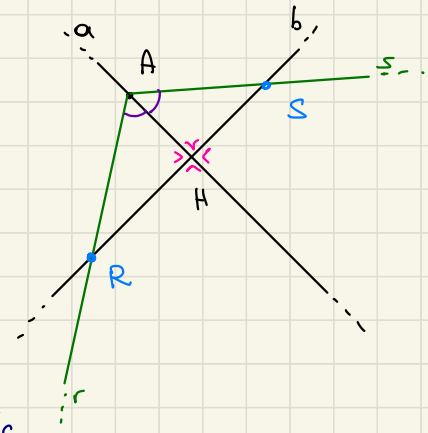
$\Rightarrow$ II crit $\Rightarrow$ $A\hat{D}P \cong P\hat{B}C \Rightarrow P\hat{C}B \cong A\hat{D}P$

## Es 60 pag G45 (Baptiste)

Hip: $a \perp b$ (→ Perpendicolare)

$r\hat{A}H \simeq H\hat{A}s$

TH: $A\hat{H}R \simeq A\hat{H}S$

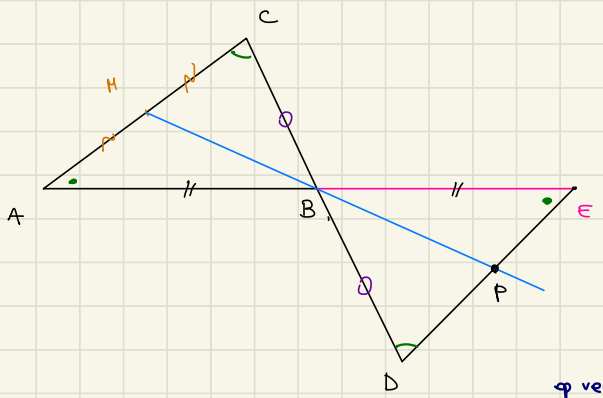



Considero i due triangoli

$A\hat{H}R \simeq A\hat{H}S$ perché $\frac{\pi}{2}$
$AH$ in comune
$R\hat{A}H \simeq H\hat{A}S$ per Hip

$\Rightarrow$ II crit $\Rightarrow$ $A\hat{H}R \simeq A\hat{H}S$

## Es 64 Pag G75




Hip: $AB \simeq BE$ Th: $EP \simeq PD$
$BD \simeq BC$
$AM \simeq MC$

Considero i triangoli $A\hat{B}C$ e $B\hat{D}E$

$AB \simeq BE$
$BC \simeq BD$
$A\hat{B}C \simeq D\hat{B}E$ (per vert.)

$\Rightarrow$ I crit $\Rightarrow$ $A\hat{B}C \simeq B\hat{D}E$

Adesso che ho gli angoli

$M\hat{A}B \simeq B\hat{E}P$
$AB \simeq BE$
$A\hat{B}M \simeq P\hat{B}E$

$\Rightarrow$ II crit $\Rightarrow$ $A\hat{B}M \simeq P\hat{B}M \Rightarrow AM \simeq EP$

$CB \simeq BD$
$M\hat{C}B \simeq B\hat{D}P$
$M\hat{B}C \simeq P\hat{B}D$

$\Rightarrow$ II crit $\Rightarrow$ $D\hat{P}B \simeq M\hat{B}C \Rightarrow CM \simeq DP$

$EP \simeq AM \simeq CM \simeq DP$