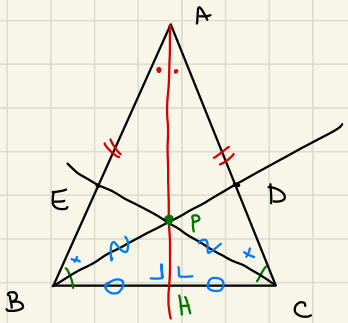
Es 141 pag G85



Hip: $AB \simeq AC$, $\hat{BAH} \simeq \hat{HAC}$ **Th:** $\hat{BCD} \simeq \hat{BCE}$

Dim: BC in comune
$E\hat{B}C \simeq D\hat{C}B$ isoscele
$P\hat{B}C \simeq A\hat{B}C - A\hat{B}P$
$\simeq A\hat{C}B - A\hat{C}P \simeq P\hat{C}B$

$\Rightarrow$ II Crit $\Rightarrow \hat{BCD} \simeq \hat{BCE}$

Per dim precedente

$\hat{ABH} \simeq \hat{AHC}$ (Già visto in una dim precedente)

$\hat{ABP}$ e $\hat{APC}$

$B\hat{A}P \simeq P\hat{A}C$ Hip
$AB \simeq AC$ isoscele
AP in comune
$\Rightarrow$ I Crit

$\hat{ABP} \simeq \hat{ACP}$

$\Downarrow$

$\hat{ABP} \simeq \hat{ACP}$ ×

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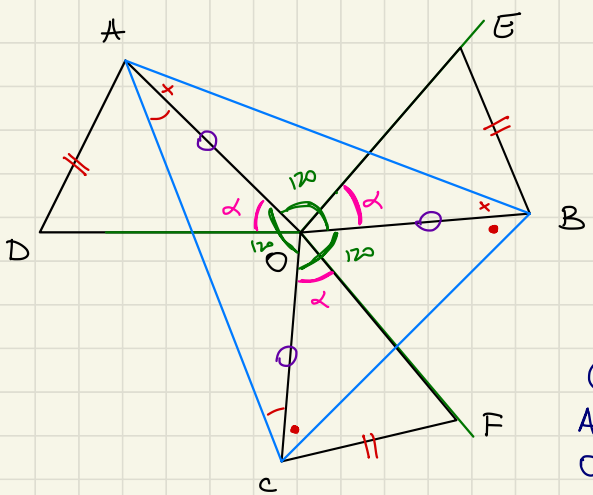

Hip: $\hat{AOD} \simeq \hat{EOB} \simeq \hat{COF}$

Th: $\hat{ABC}$ equilatero

Dim: $\hat{AOB}$ è isoscele
$\hat{COB}$ è isoscele
$\hat{AOC}$ è isoscele

Considero $\hat{AOC}$ e $\hat{AOB}$

AO in comune
$OC \simeq OB$
$A\hat{O}B = \frac{2}{3}\pi = A\hat{O}C$

$\Rightarrow$ I Crit $\Rightarrow \hat{AOC} \simeq \hat{AOB}$

$\Rightarrow AC \simeq AB$. Analogamente $\hat{AOC} \simeq \hat{COB} \Rightarrow AC \simeq CB$ □

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$$\frac{3x^3+4(x-3)-9x^2}{2x^3-6x^2+8x-24} > 1$$

$$\frac{3x^3+4x-12-9x^2-2x^3+6x^2-8x+24}{2x^3-6x^2+8x-24} > 0$$

$$\frac{x^3-3x^2-4x+12}{2(x^3-3x^2+4x-12)} > 0$$

$$\frac{x^2(x-3)-4(x-3)}{2[x^2(x-3)+4(x-3)]} > 0$$

$$\frac{(x-3)(x-2)(x+2)}{2(x-3)(x^2+4)} > 0$$

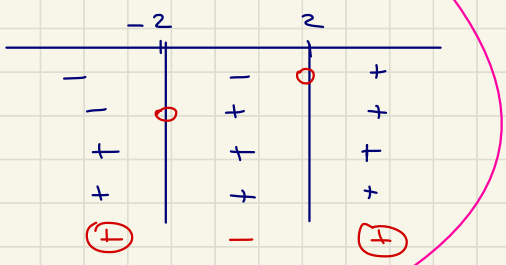
C.E. $x \neq 3$

$N_1 > 0 \quad x > 2$

$N_2 > 0 \quad x > -2$

$D_1 > 0 \quad 2 > 0$ Semple

$D_2 > 0 \quad x^2+4 > 0$ Sempre



Sol. $x < -2 \quad \cup \quad x > 2 \quad x \neq 3$

$(-\infty, -2) \cup (2, 3) \cup (3, +\infty)$