

PAG. 6.88 n° 1  
(D)

PAG. 6.88 n° 2  
 $AB \parallel AC \quad \checkmark$   
 $GB \parallel AB \quad \checkmark$   
 $EB \parallel AC \quad \checkmark$   
 $AC \parallel CH \quad \checkmark$

PAG. 89 n° 4  
a) (NO)  $28 = 13 + 15$   
b) (SI)

PAG. 6.90 n° 1  
a)  $\checkmark$   
b)  $\checkmark$   
c)  $\checkmark$   
d)  $\checkmark$

PAG. 6.90 n° 2  
a) F  
b)  $\checkmark$   
c) F  
d)  $\checkmark$

PAG. 6.90 n° 3  
(C)

PAG. 6.90 n° 5  
(B)

PAG. 6.93 n° 49  
(D)

PAG. 6.90 n° 4  
(B)

PAG. 121 n° 65  
(C)

PAG. 6.113 n° 1  
a)  $\checkmark$   
b)  $\checkmark$   
c)  $\checkmark$   
d) F

PAG. 116 n° 22  
a)  $\checkmark$   
b) F  
c)  $\checkmark$   
d) F  
e) F

PAG. 121 n° 58  
Dati  
 $\alpha + \beta = 180^\circ$  perché ANGOLI  
CONIUGATI DI  
RETTE PARALLELE  
 $\alpha = \frac{2}{3} \beta$   
OBIETTIVO  $\alpha, \beta$

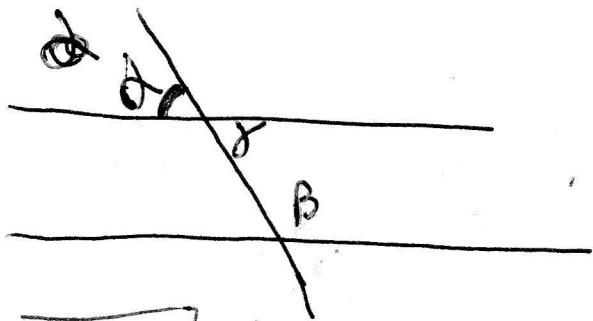
PAG. 119 n° 38  
a)  $130^\circ$   
b)  $90^\circ$   
c)  $360^\circ$

PROCEDIMENTO

$\alpha + \beta = 180$  SOSTITUISCO  $\alpha = \frac{2}{3} \beta$   
 $\frac{2}{3} \beta + \beta = 180$  DIVIDO PER EQUAZIONE  
DI PRIMO GRADO  
 $2\beta + 3\beta = 540$   
 $5\beta = 540$   
 $\beta = \frac{540}{5} = 108^\circ$   
 $\alpha = 180 - 108 = 72^\circ$

PAG. 6.121 n° 63  
a)  $180^\circ$   
b)  $260^\circ$   
c)  $80^\circ$   
d)  $100^\circ$

Pat. G. 121 n° 53



DATI

$$\frac{3}{4}\beta + \alpha = 152$$

obiettivo

trova  $\alpha, \beta$

$\alpha \cong \beta$  perché angoli opposti al vertice

$\alpha + \beta \cong 180^\circ$  perché coniugati

$$\alpha = 180^\circ - \beta$$

SOSTITUISCO IN

$$\frac{3}{4}\beta + \alpha = 152$$

$$\frac{3}{4}\beta + 180^\circ - \beta = 152$$

RISOLVO L'EQUAZIONE LINEARE IN  $\beta$

$$3\beta + 720 - 4\beta = 608$$

$$-\beta = -112$$

$$\beta = 112^\circ$$

$$\alpha = 152 - \frac{3}{4}\beta$$

$$\alpha = 152 - \frac{3}{4}(112) = 152 - 84 = 68^\circ$$

**PAT 1216 n 60**

**Dati**  $\beta - \alpha = 38^\circ$

**Objetivo**  $\alpha, \beta$

$\alpha + \beta = 180^\circ$  *jele' angli' konjugatni*

*da*  $\beta - \alpha = 38^\circ$  *ricavo*  $\beta = \alpha + 38^\circ$

*Sostituisco* in  $\alpha + \beta = 180^\circ$

$$\alpha + \alpha + 38 = 180$$

$$2\alpha = 142$$

$$\alpha = 71^\circ$$

$$\Rightarrow \beta = \alpha + 38 = 71 + 38 = 109^\circ$$

**PAT 1226 n 63**

**Dati**

$\alpha + \beta = 180^\circ$  *jele' konjugatni*

$$\alpha = 40^\circ + \frac{3}{4}\beta$$

*Trovo inizialmente*  $\alpha$  e  $\beta$

$$\alpha + \beta = 180^\circ$$

*sostituisco*  $\alpha = 40 + \frac{3}{4}\beta$

$$40 + \frac{3}{4}\beta + \beta = 180$$

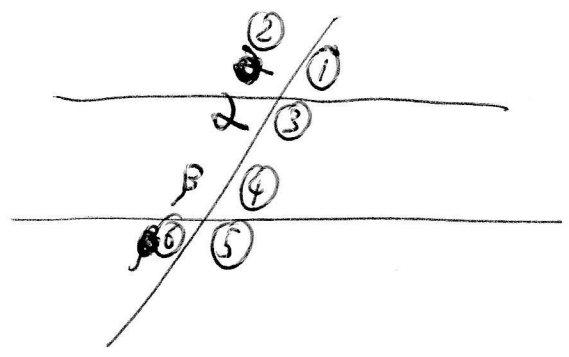
$$160 + 3\beta + 4\beta = 720$$

$$7\beta = 560$$

$$\beta = 80^\circ$$

$$\alpha = 40 + \frac{3}{4}\beta = 40 + \frac{3}{4} \cdot 80 = 40 + 60 = 100^\circ$$

*oppure*  $\alpha + \beta = 180^\circ$   $\alpha = 100^\circ$



*obiettivo*

$\alpha$	?
$\beta$	?
1	
2	
3	
4	
5	
6	

*Per le altre angoli* ~~ricavo~~ *Archi*

①  $\hat{=}$   $\alpha$  *jele' oppost' d'angolo*  
 ⑤  $\hat{=}$   $\beta$  " " "

$$\alpha + ③ = 180^\circ \quad \boxed{③ = 80^\circ}$$

$$3 + ④ = 180^\circ \quad \boxed{④ = 100^\circ}$$

*oppure*  $\alpha = ④$  *Perche' ANGOLO*  
 $\beta = ③$  *INTERNO*

②  $\hat{=}$  ⑥ *jele' oppost' d'angolo*