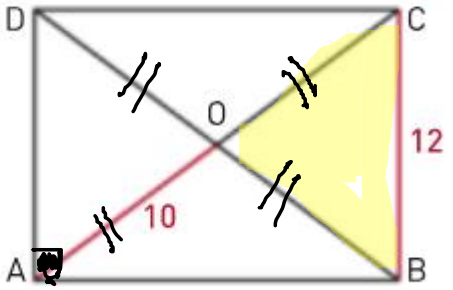
ESERCITAZIONE

1) Pag. G. 164 n°73

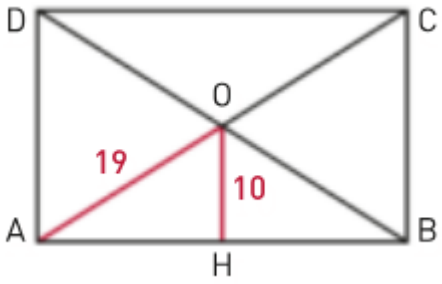
73 Il perimetro del triangolo *BOC*. [32]

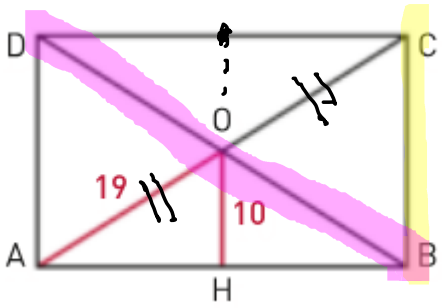


$2p = 10 + 10 + 12 = 32$

2) Pag. G. 164 n°74

Determina BC e BD



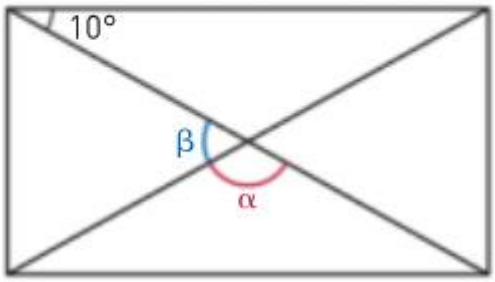


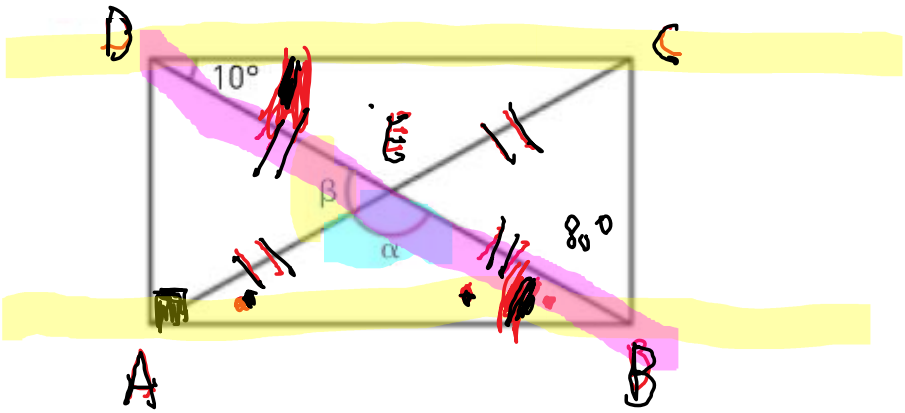
$DB \cong AC = 2 \cdot 19 = 38$

$CB \cong 2 \cdot OH = 20$

3) Pag. G.164 n°75

75 α e β. [160°; 20°]





$A\hat{D}E \cong \beta\hat{D}C$ ALTERNI INTERNI DELLE RETTE // DC e AB tagliati dalla trasversale DB

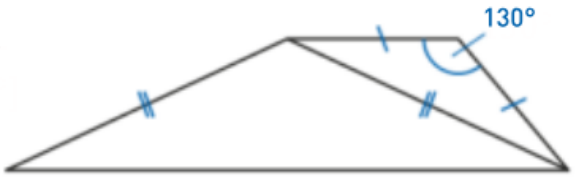
$A\hat{D}E = 10°$

$\alpha = 180° - 2(10°) = \boxed{160°}$

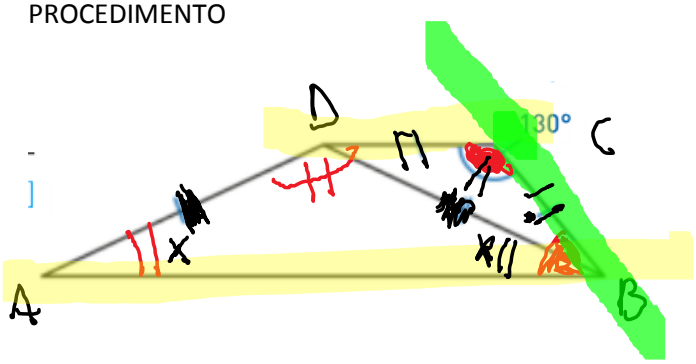
$\beta = 180° - 2(80°) = 20°$

4) Pag. G.176 n°3

Determina le ampiezze degli angoli del trapezio in figura. [50°; 25°; 155°; 130°]



PROCEDIMENTO



$\hat{C} + \hat{B} = 180°$ perché gli angoli adiacenti ai lati ob. sono supplementari

$130° + \hat{B} = 180$

$\hat{B} = 50°$

$B\hat{D}C \cong C\hat{B}D$ BDC isoscele

$B\hat{D}C = \frac{180 - 130}{2} = 25°$

$\hat{A} = A\hat{B}D = 50 - 25 = 25°$

$A\hat{D}B = 130° - 2(A\hat{B}D) = 130°$

$\hat{D} = A\hat{D}B + B\hat{D}C = 130° + 25° = 155°$

$\hat{C} = 130°$