



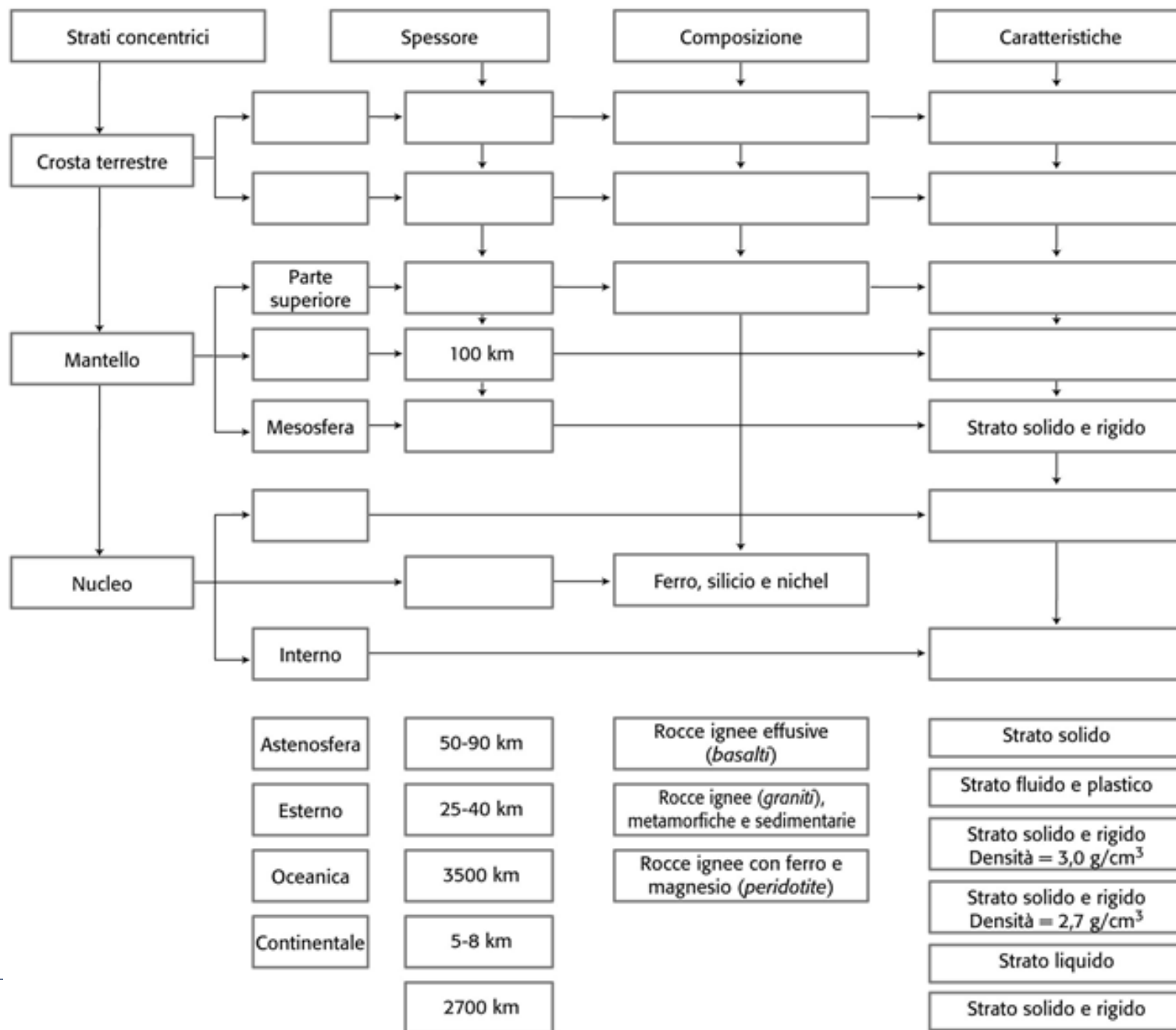
UNIVERSITÀ  
DEGLI STUDI  
DI TRIESTE

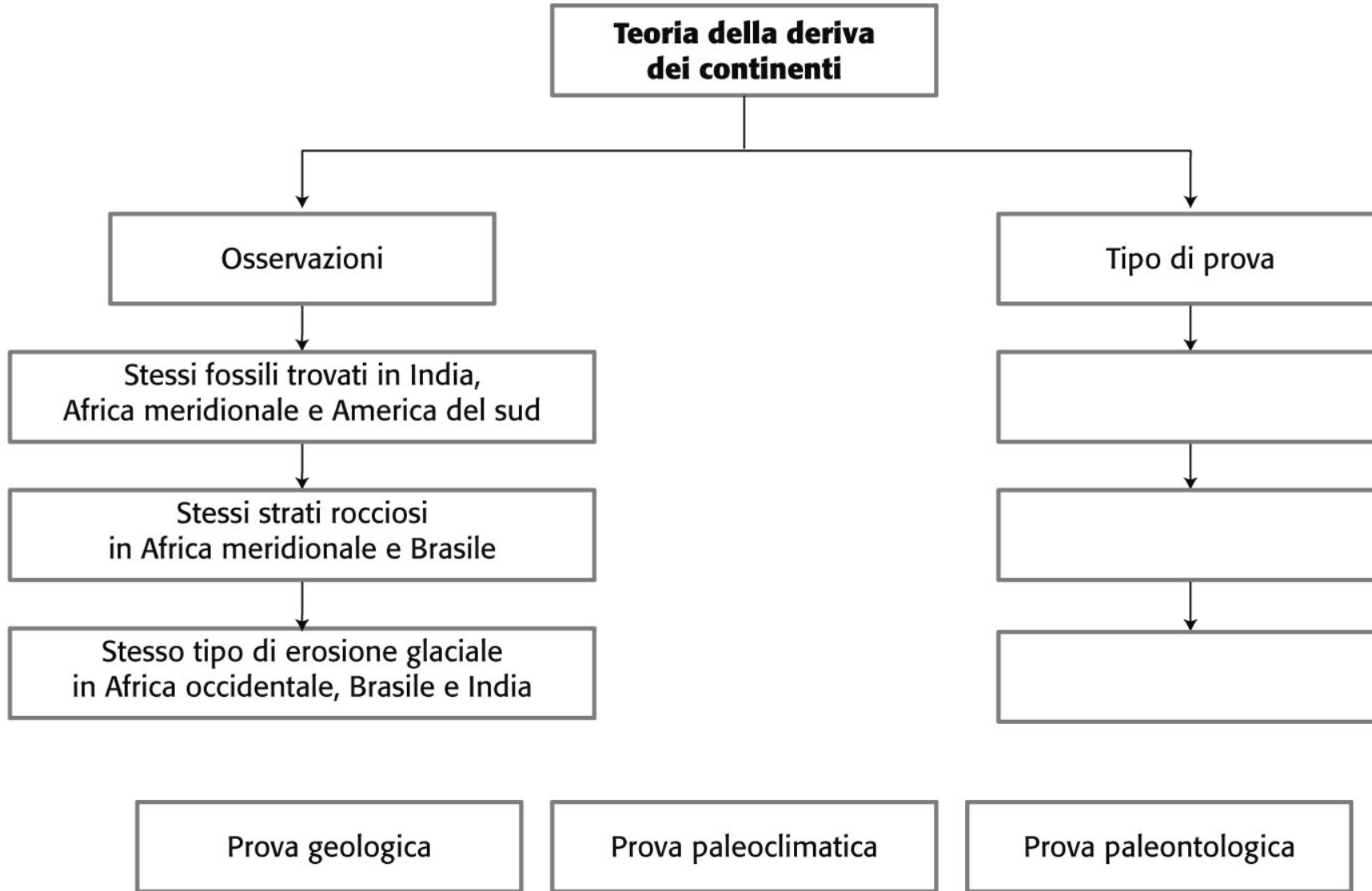
# Fisica Terrestre

Tettonica delle placche - Esercizi

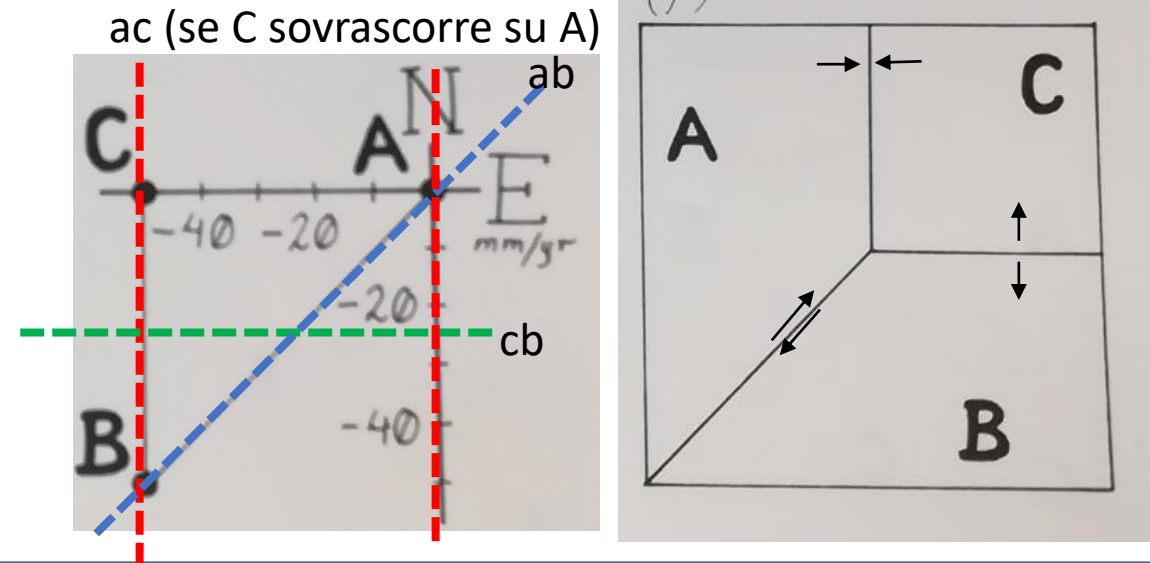
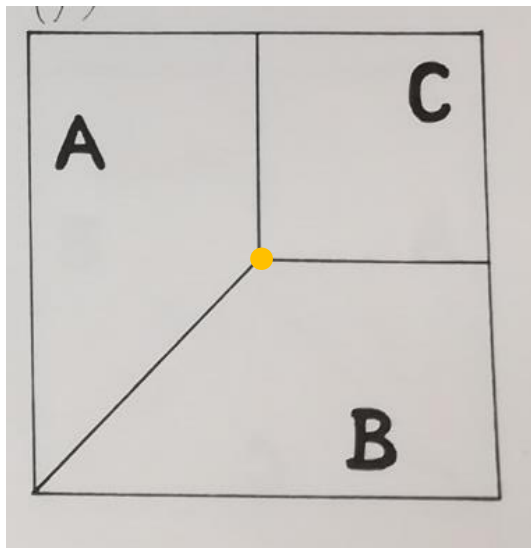
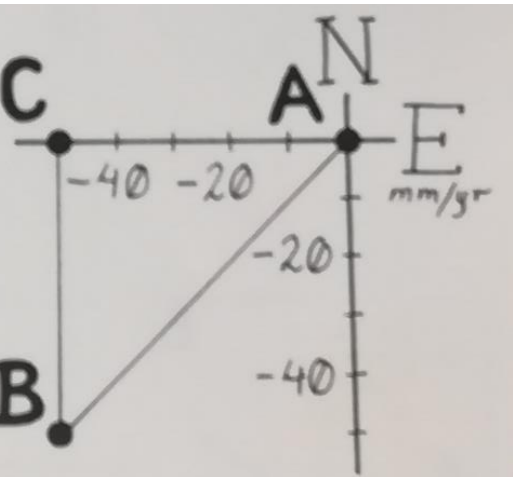
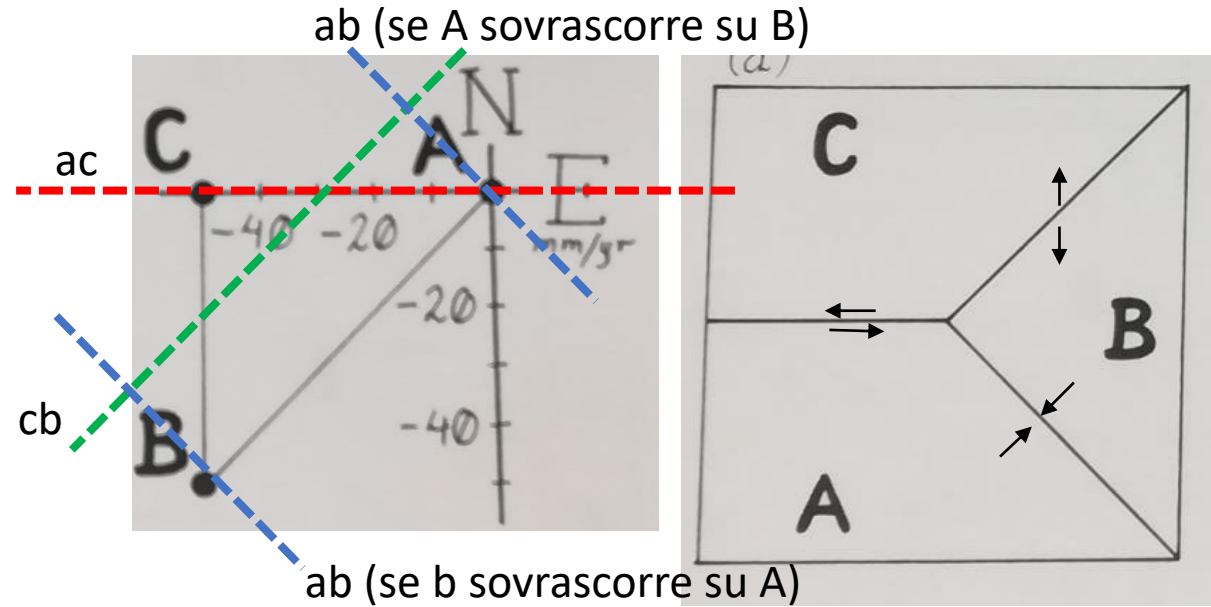
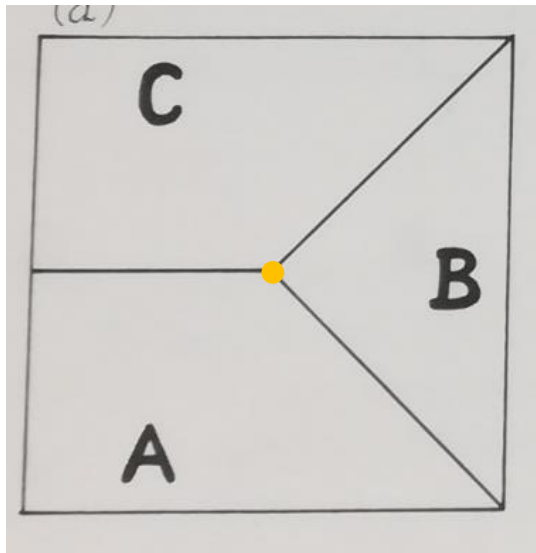
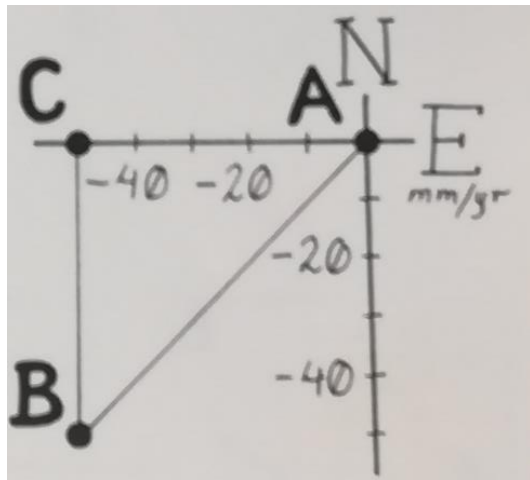
Veronica Pazzi - [veronica.pazzi@units.it](mailto:veronica.pazzi@units.it)

# L'interno della Terra

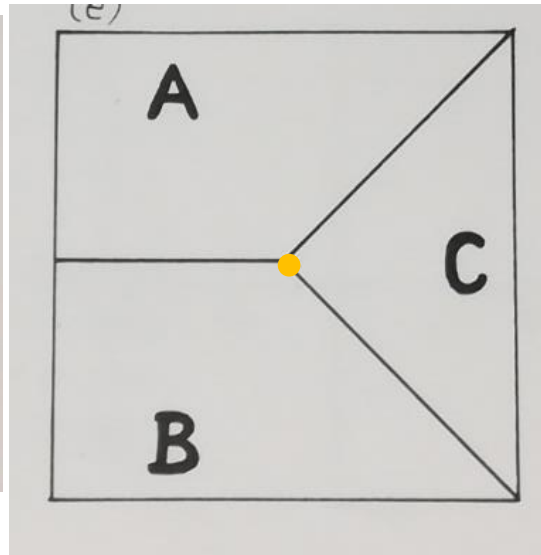
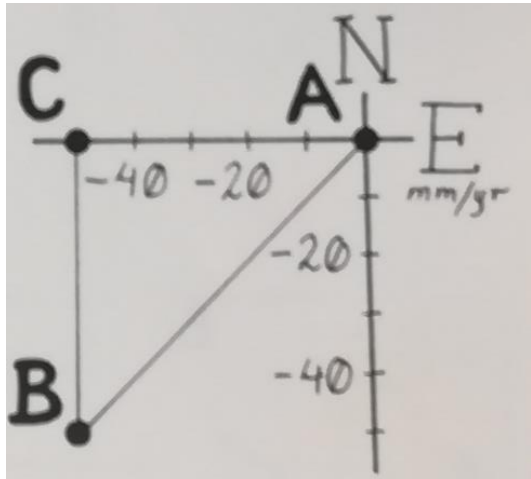




# Tettonica delle placche: esercizi

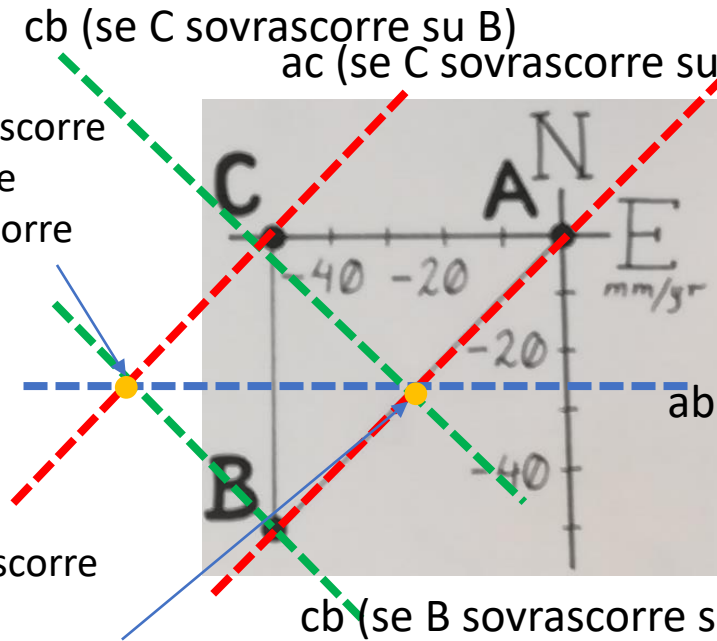


# Tettonica delle placche: esercizi



B sovrascorre su C che sovrascorre su A

C sovrascorre su B e A sovrascorre su C



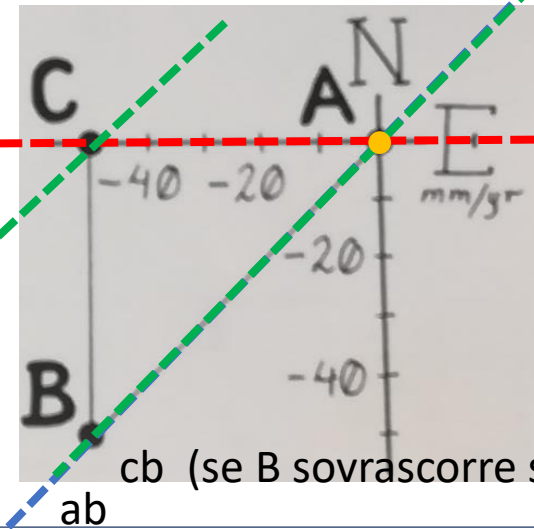
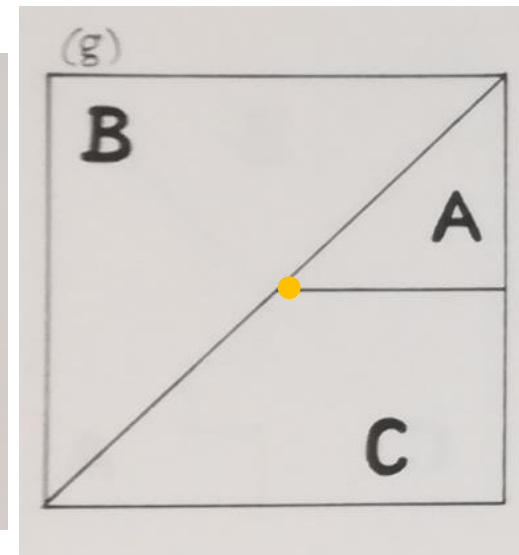
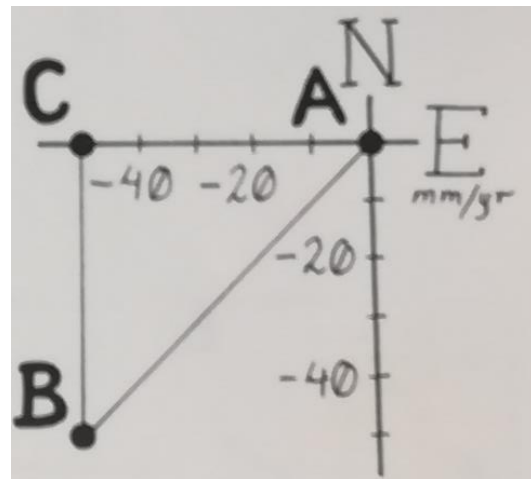
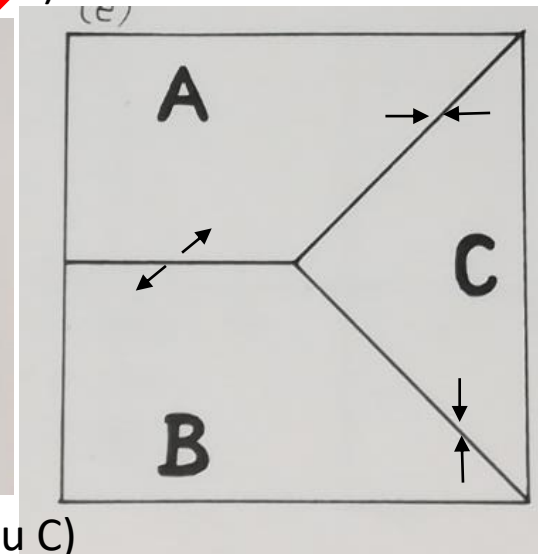
cb (se C sovrascorre su B)  
ac (se C sovrascorre su A)

ac

cb (se C sovrascorre su B)

ab

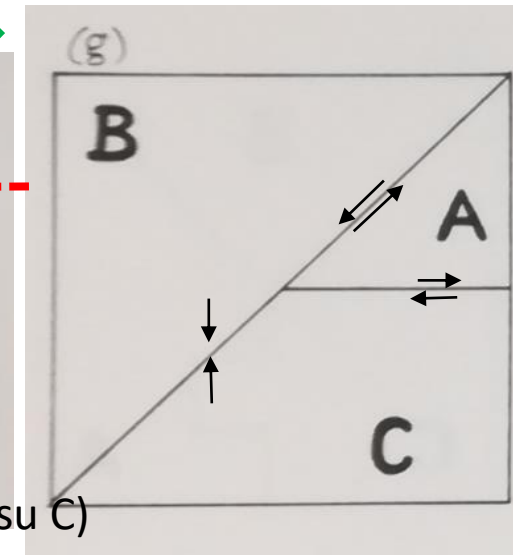
ac (se A sovrascorre su C)



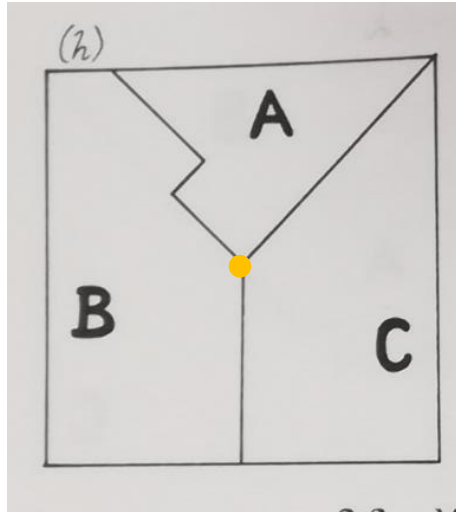
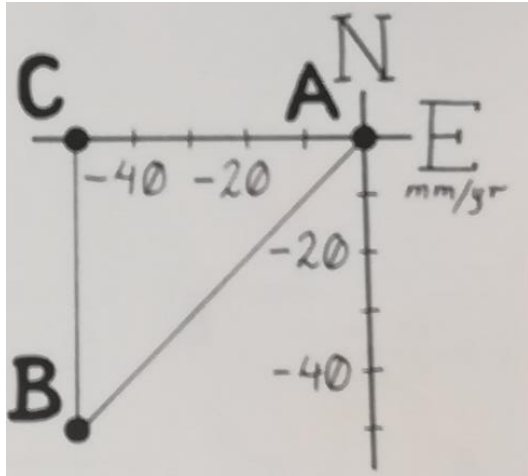
ac

cb (se C sovrascorre su B)

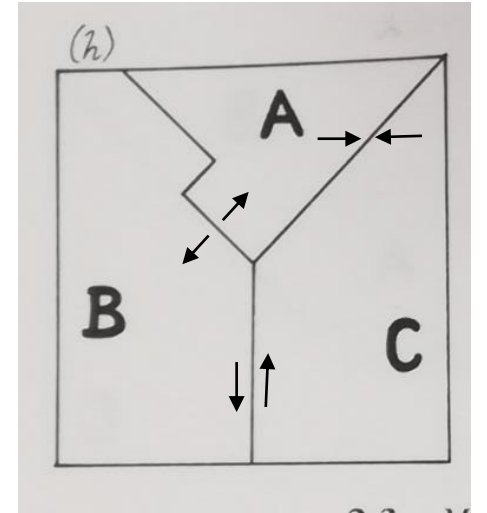
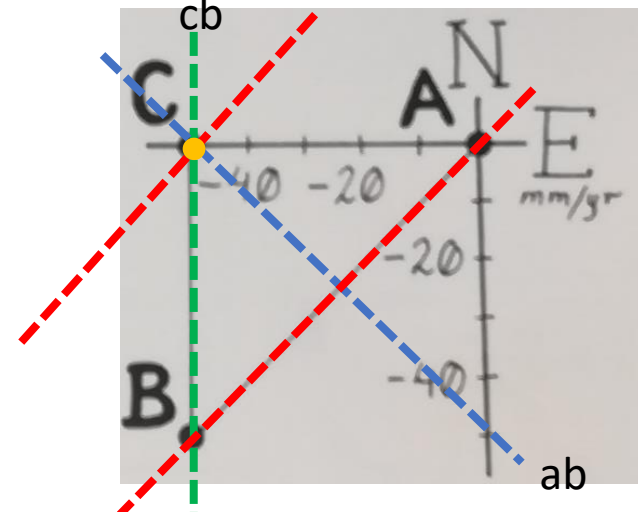
ab



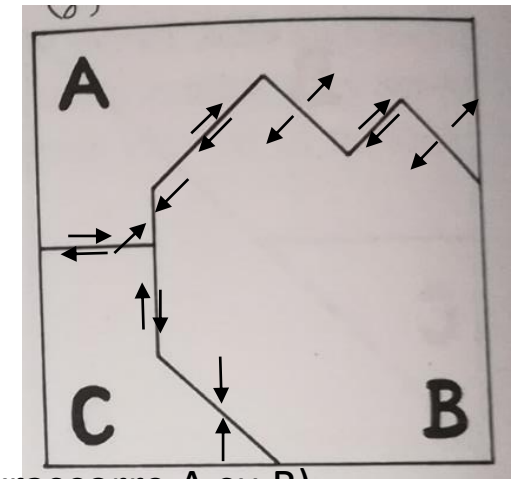
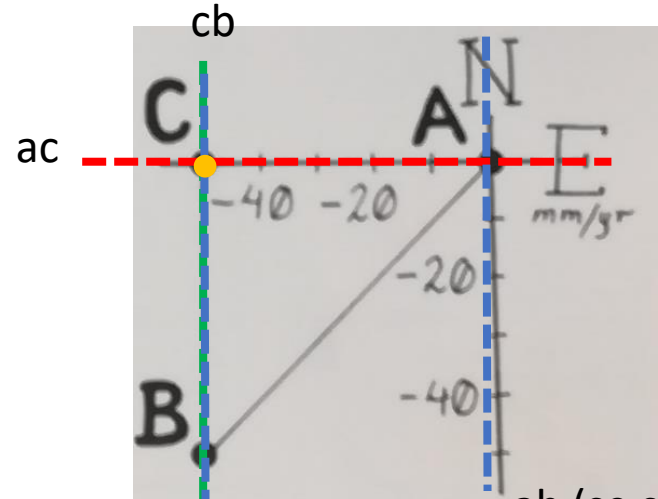
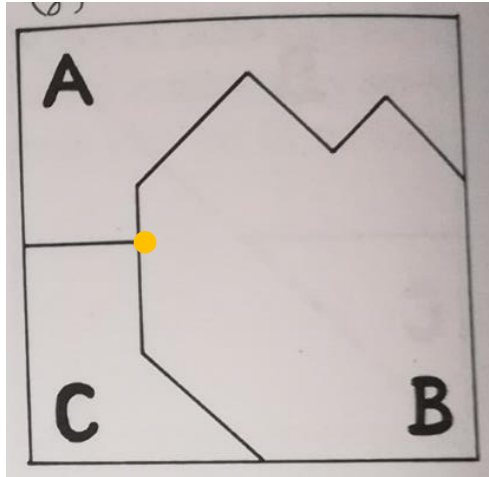
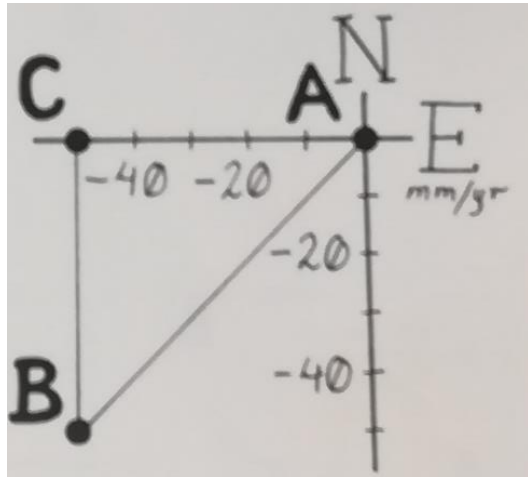
# Tettonica delle placche: esercizi



ac (se C sovrascorre su A)



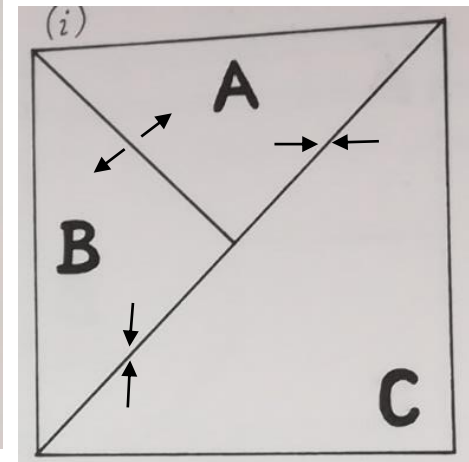
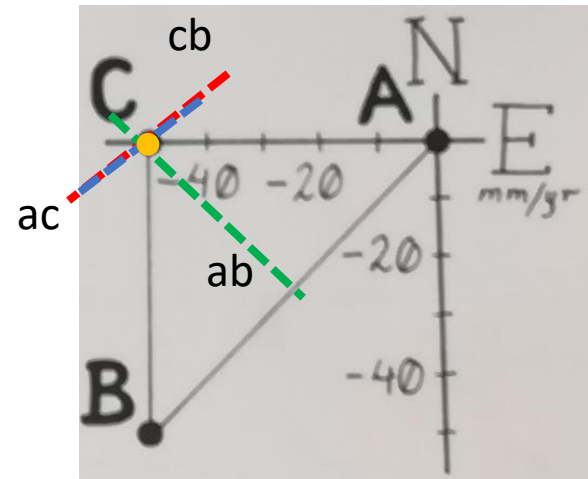
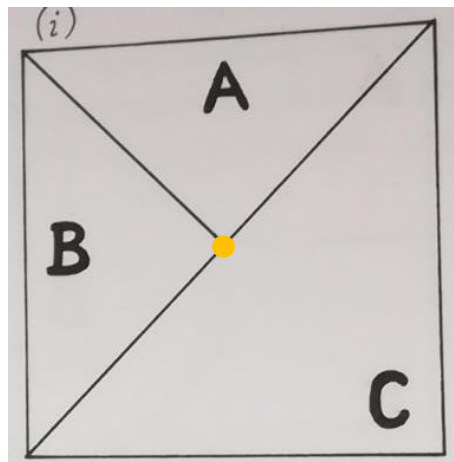
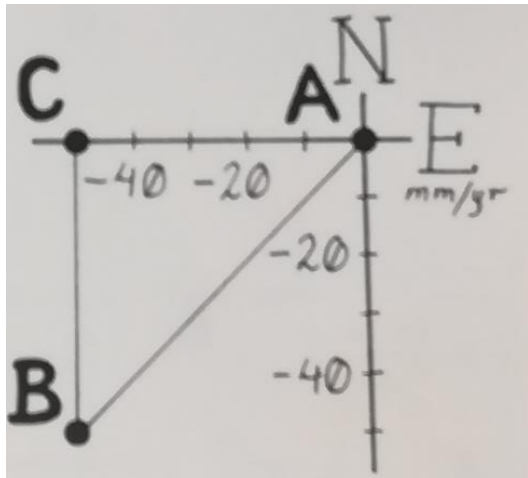
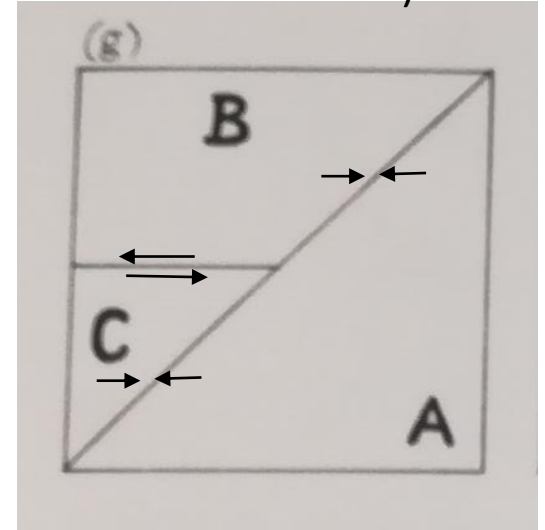
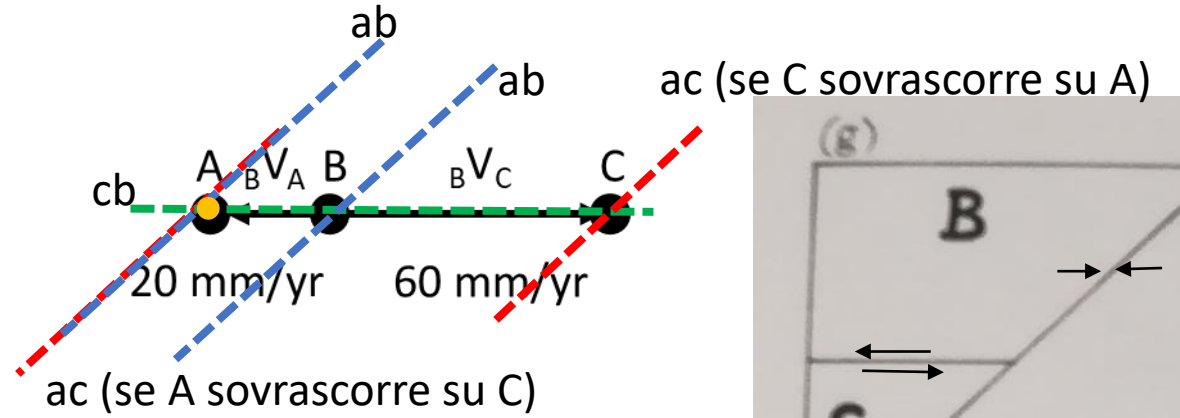
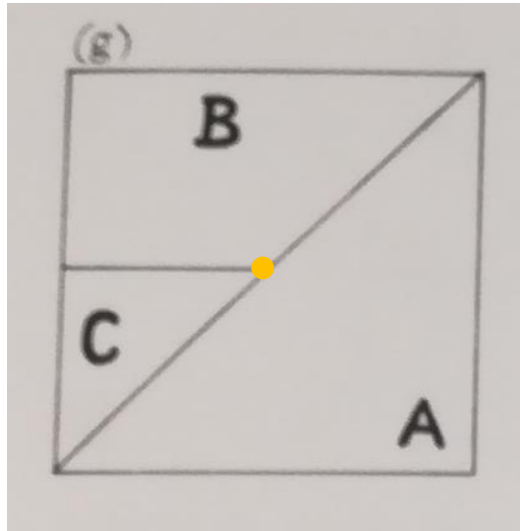
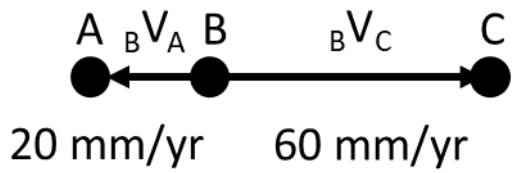
ac (se A sovrascorre su C)



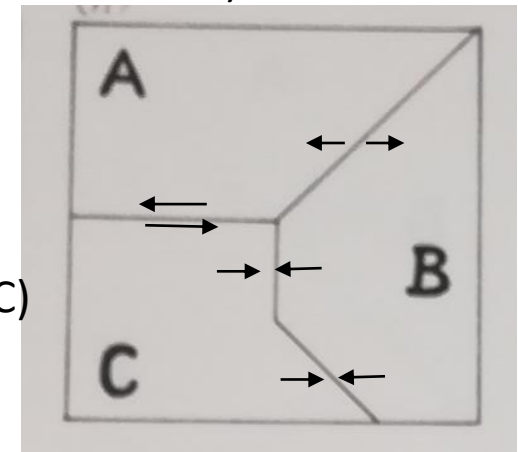
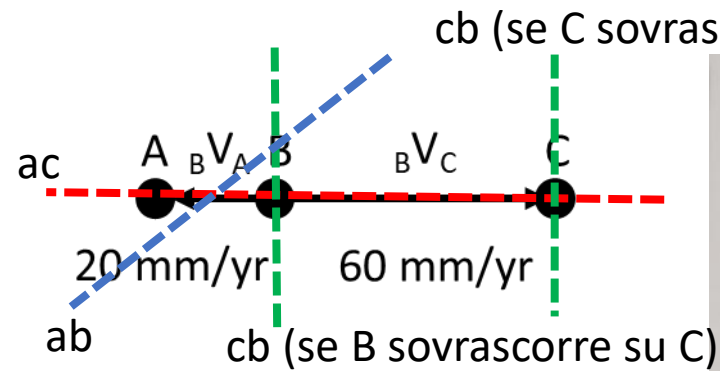
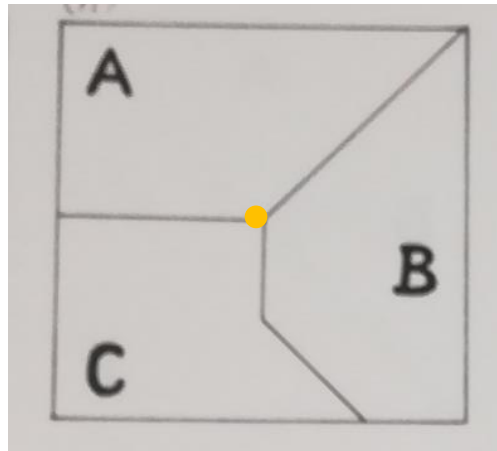
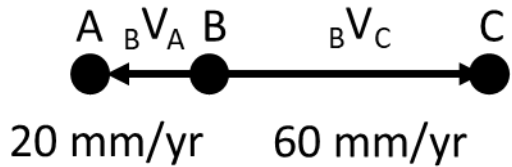
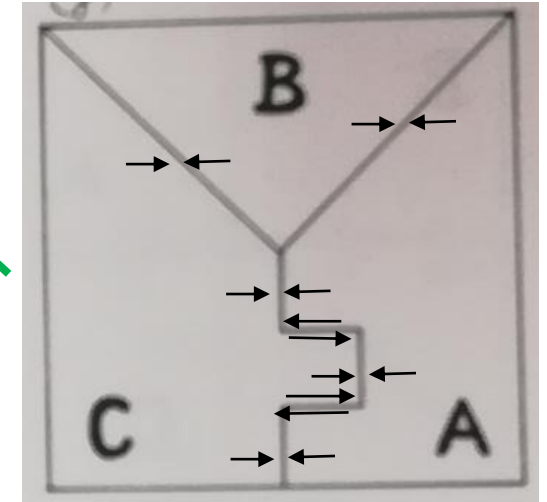
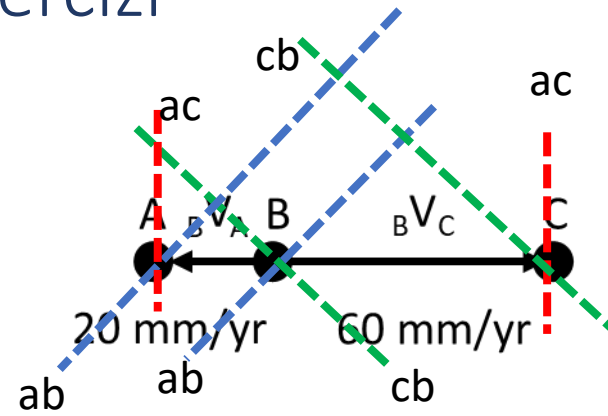
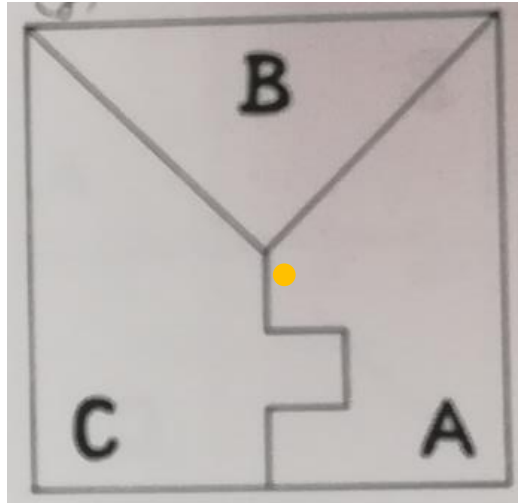
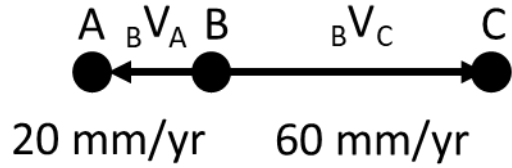
ab (se sovrascorre A su B)

ab (se sovrascorre B su A)

# Tettonica delle placche: esercizi

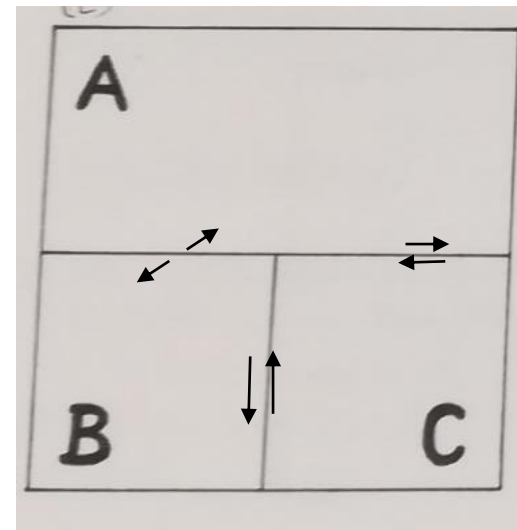
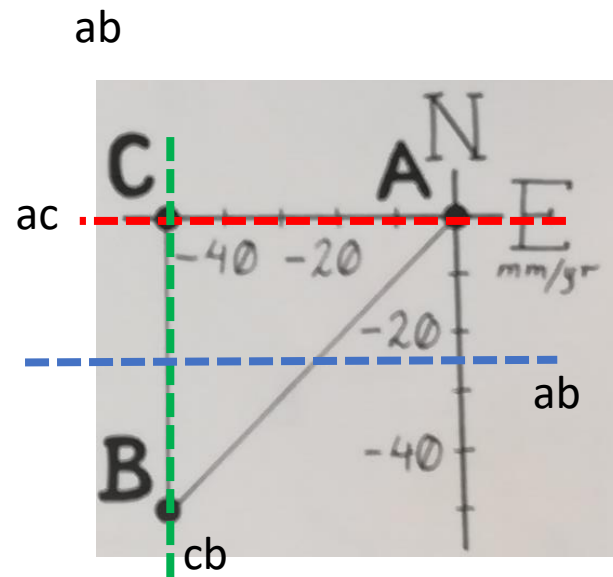
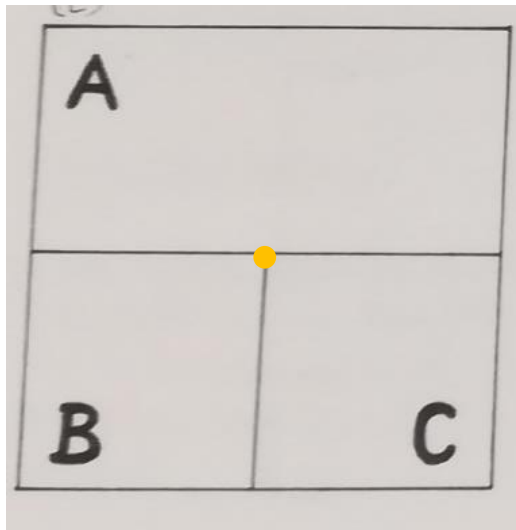
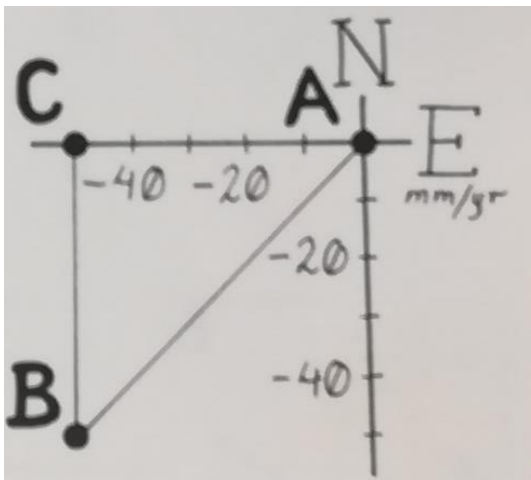


# Tettonica delle placche: esercizi

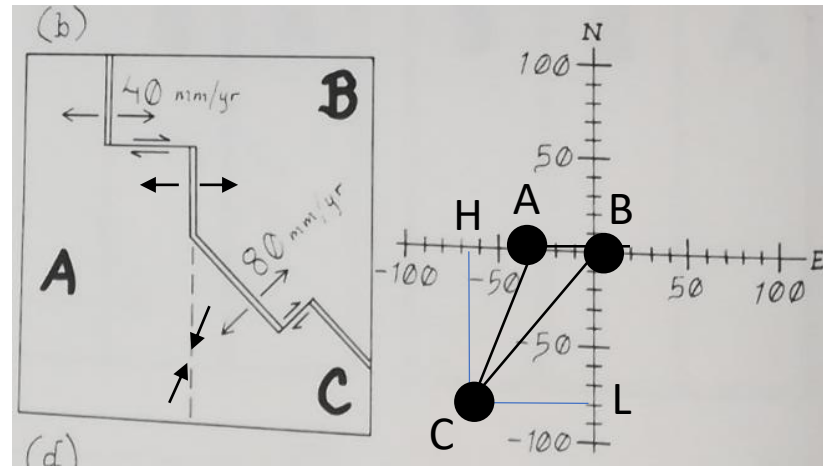
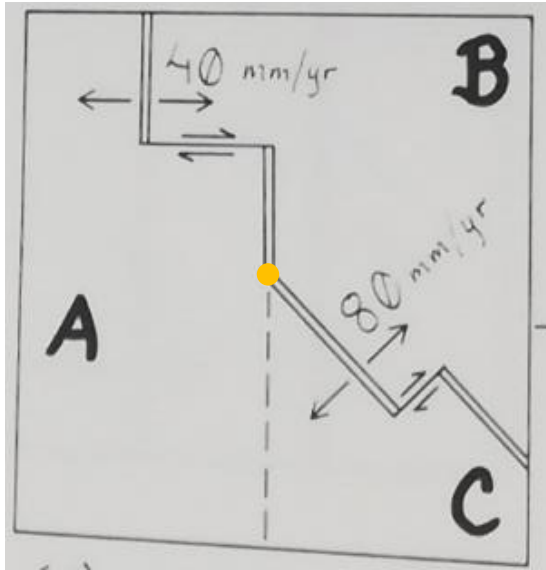




# Tettonica delle placche: esercizi



# Tettonica delle placche: esercizi



$$AB = 40 \text{ mm/yr}$$

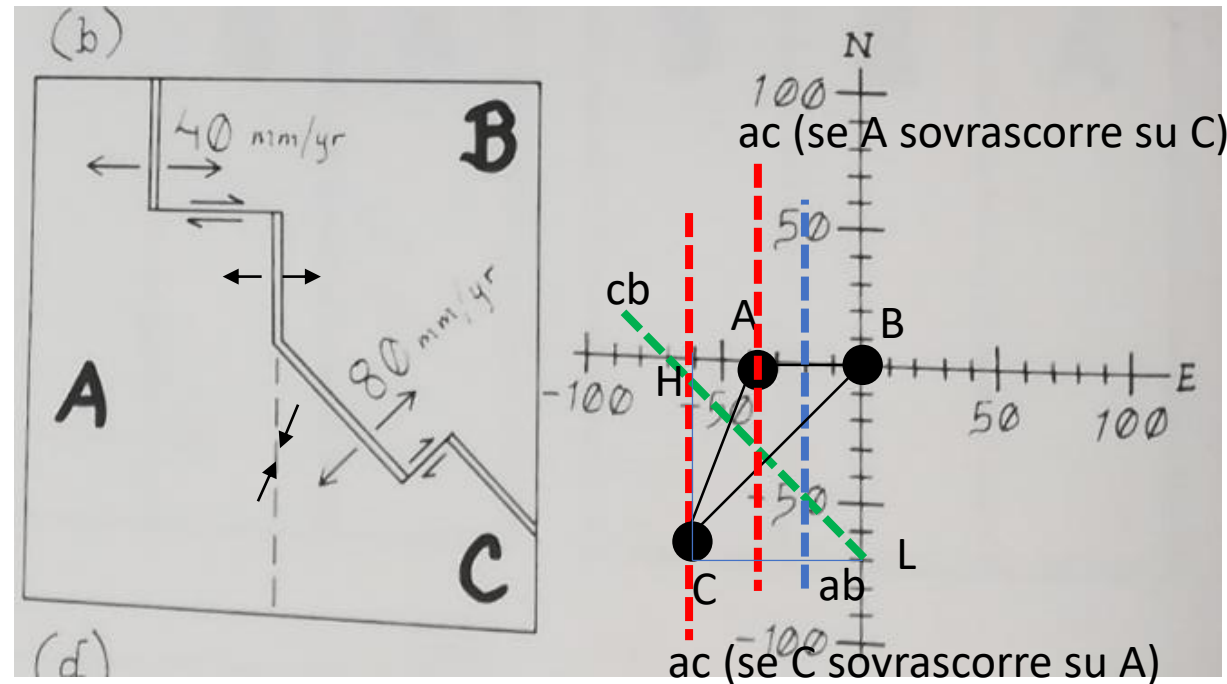
$$CB = 80 \text{ mm/yr}$$

$$AC = ? = (CH^2 + HA^2)^{1/2}$$

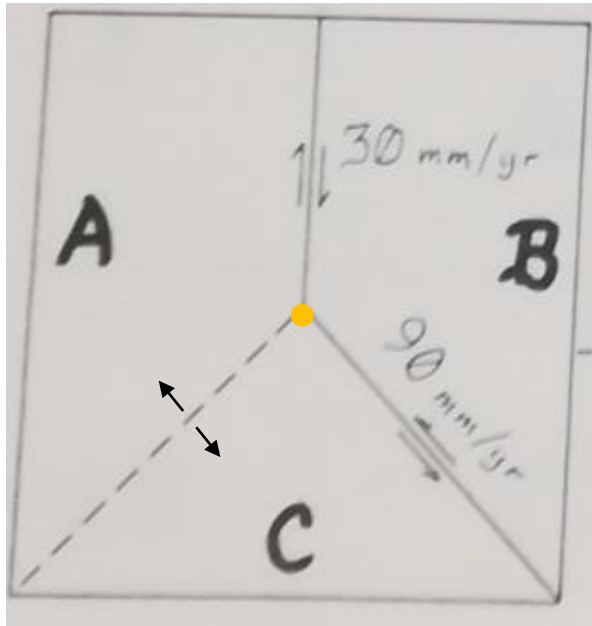
$$CH = CL = CB / (2^{1/2}) = 56.7$$

$$HA = HB - AB = 56.7 - 40 = 16.7$$

$$AC = 59.1$$



# Tettonica delle placche: esercizi



$$AB = 30 \text{ mm/yr}$$

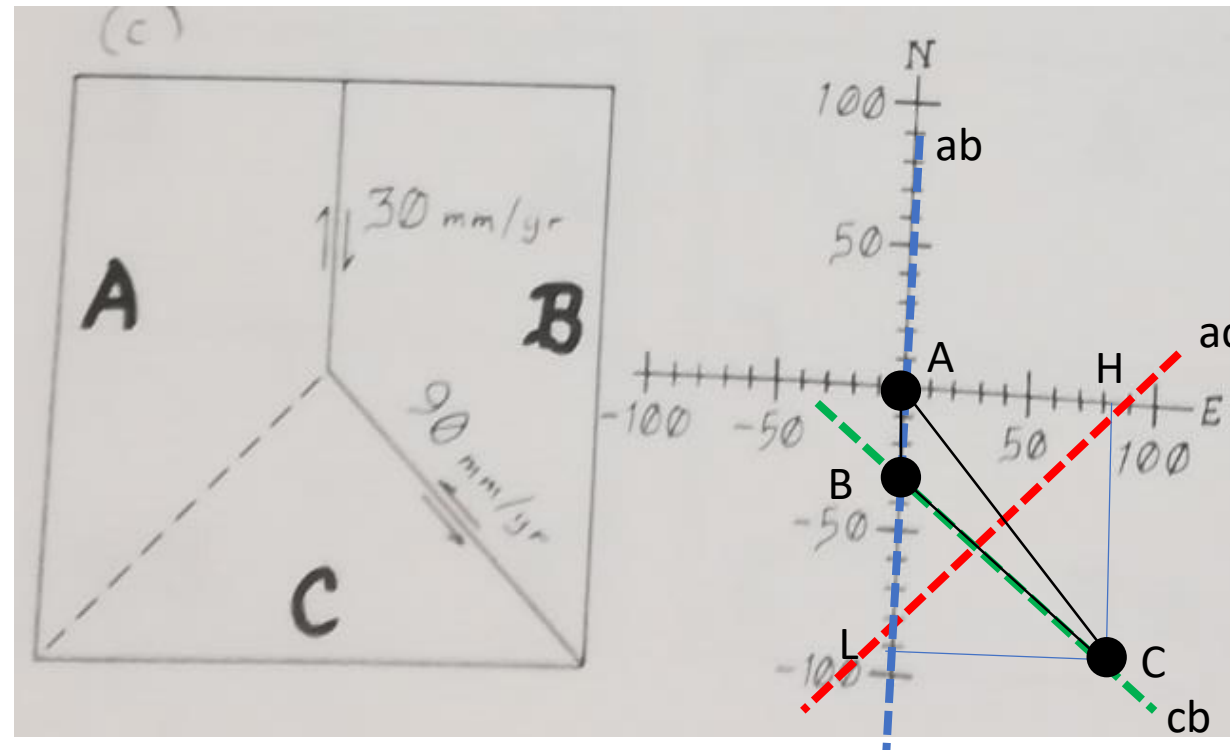
$$CB = 90 \text{ mm/yr}$$

$$AC = ? = (AL^2 + CL^2)^{1/2}$$

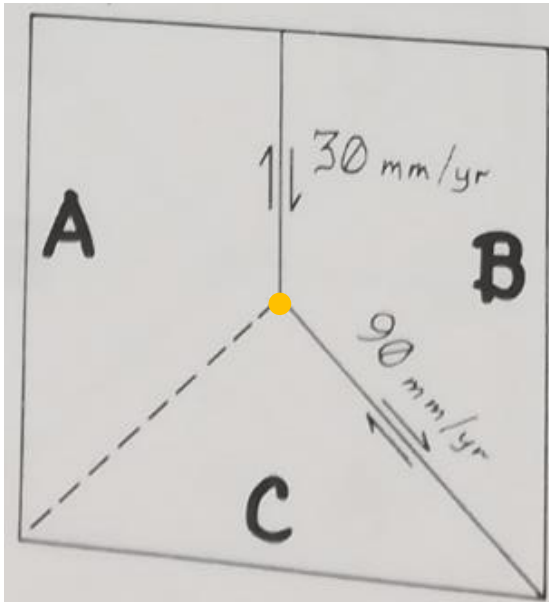
$$BL = CL = CB / (2^{1/2}) = 63.6$$

$$AL = AB + BL = 30 + 63.6 = 93.6$$

$$AC = 113.2$$



# Tettonica delle placche: esercizi



$$AB = 30 \text{ mm/yr}$$

$$CB = 90 \text{ mm/yr}$$

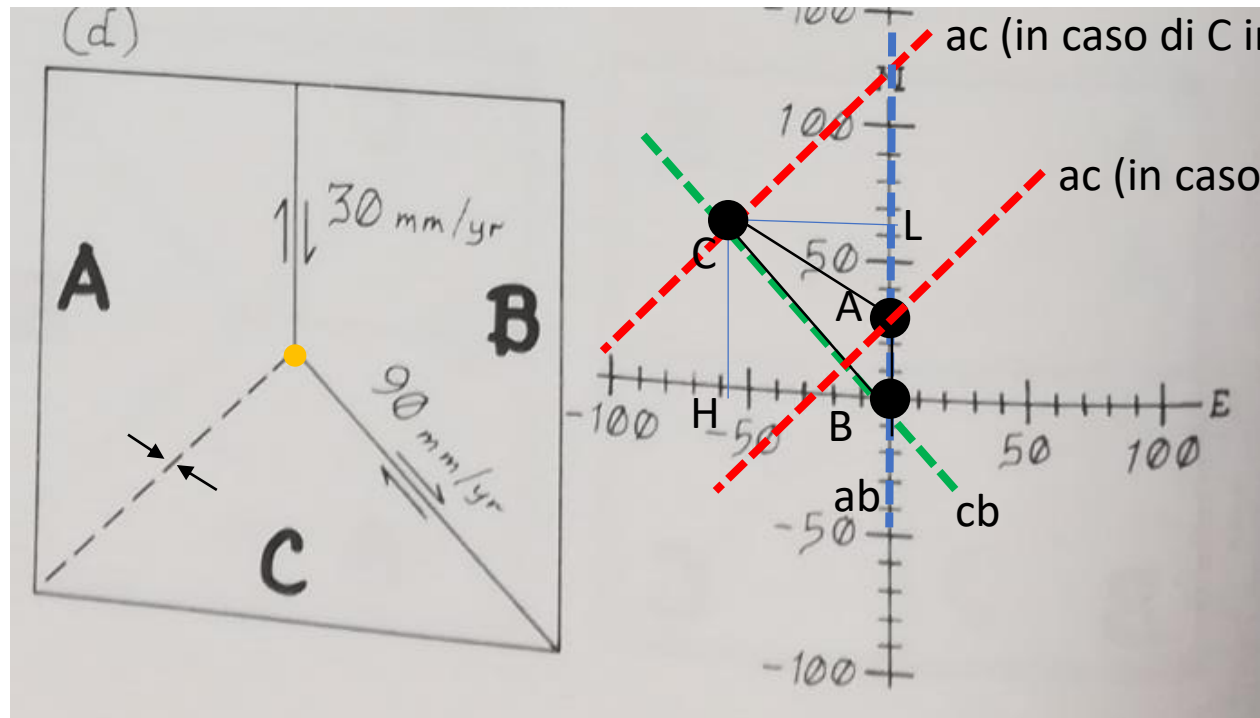
$$AC = ? = (AL^2 + CL^2)^{1/2}$$

$$HB = CL = CB / (2^{1/2}) = 63.6$$

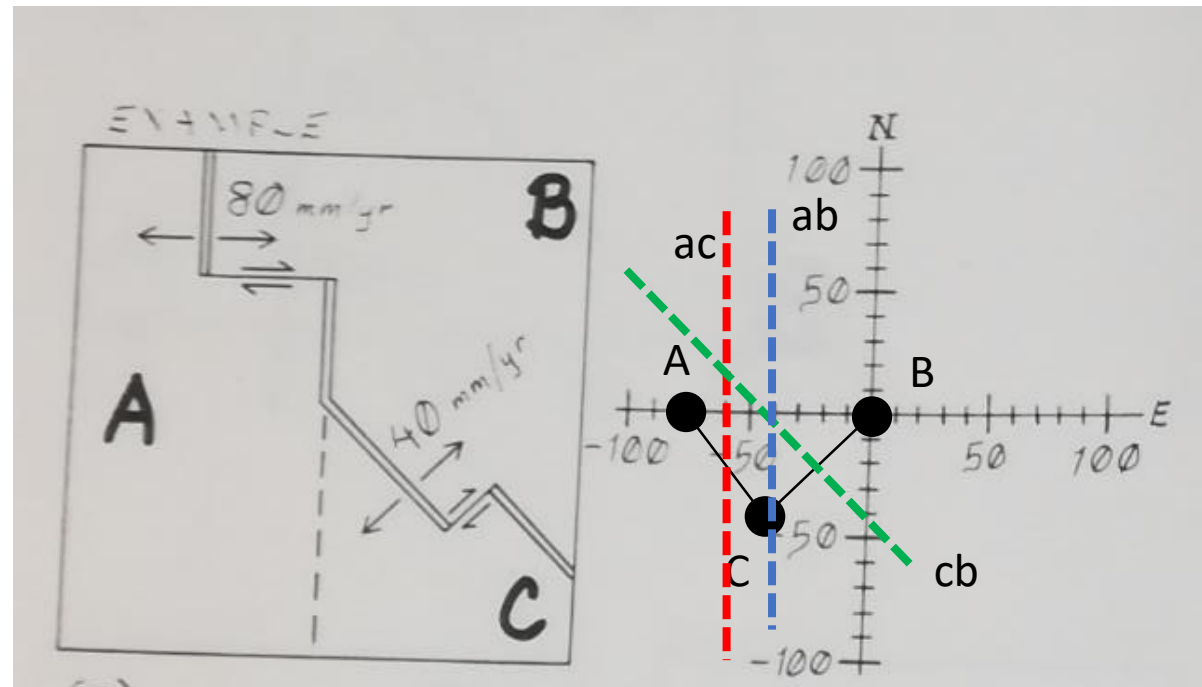
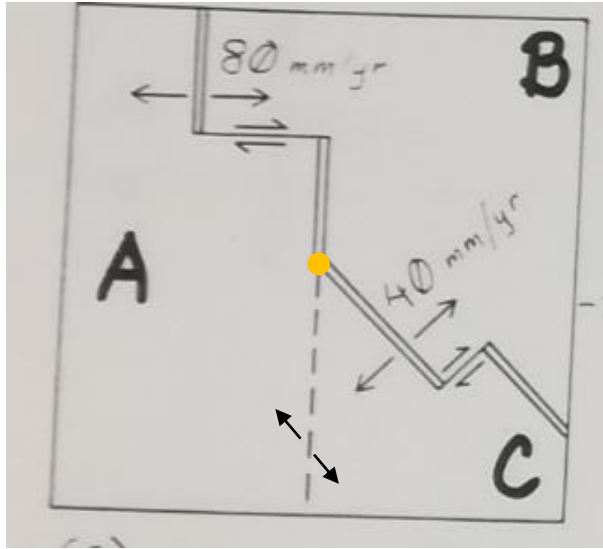
$$CH = BL = HB$$

$$AL = BL - AB = 63.6 - 30 = 33.6$$

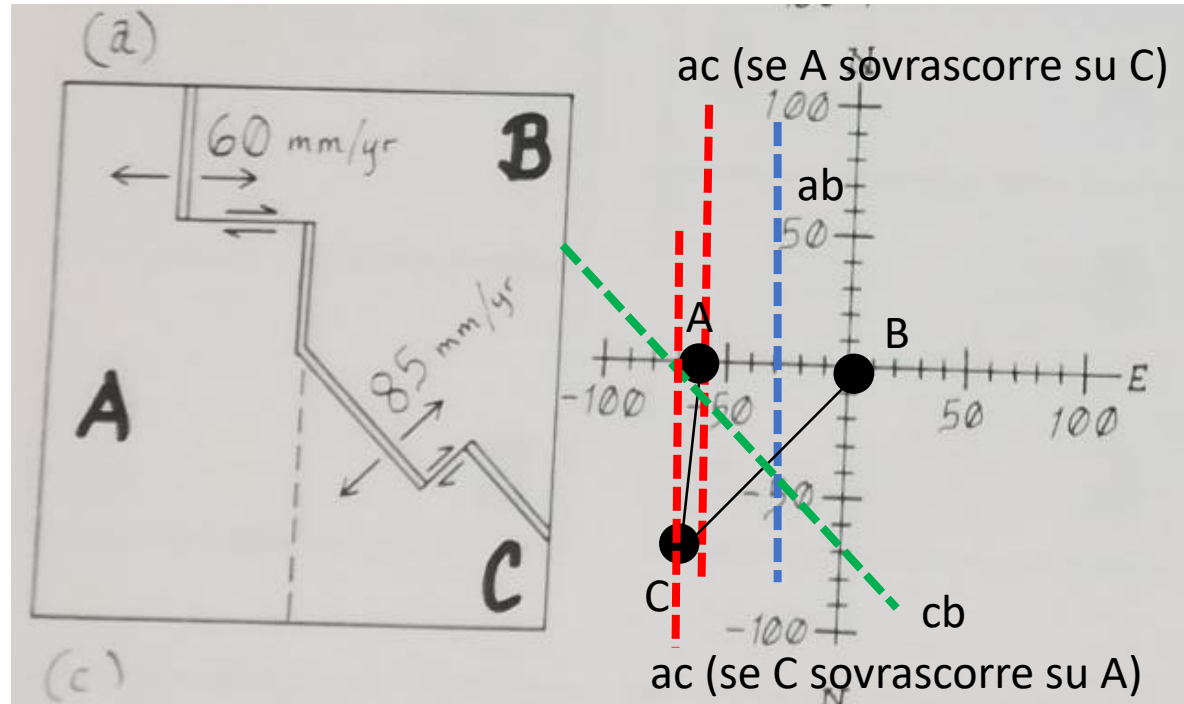
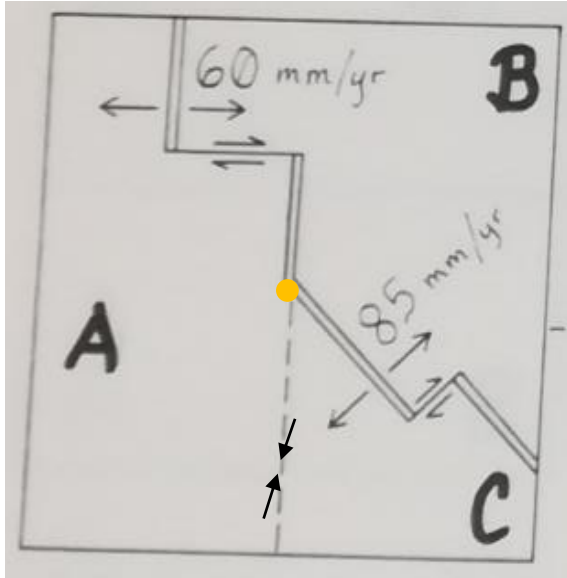
$$AC = 71.9$$



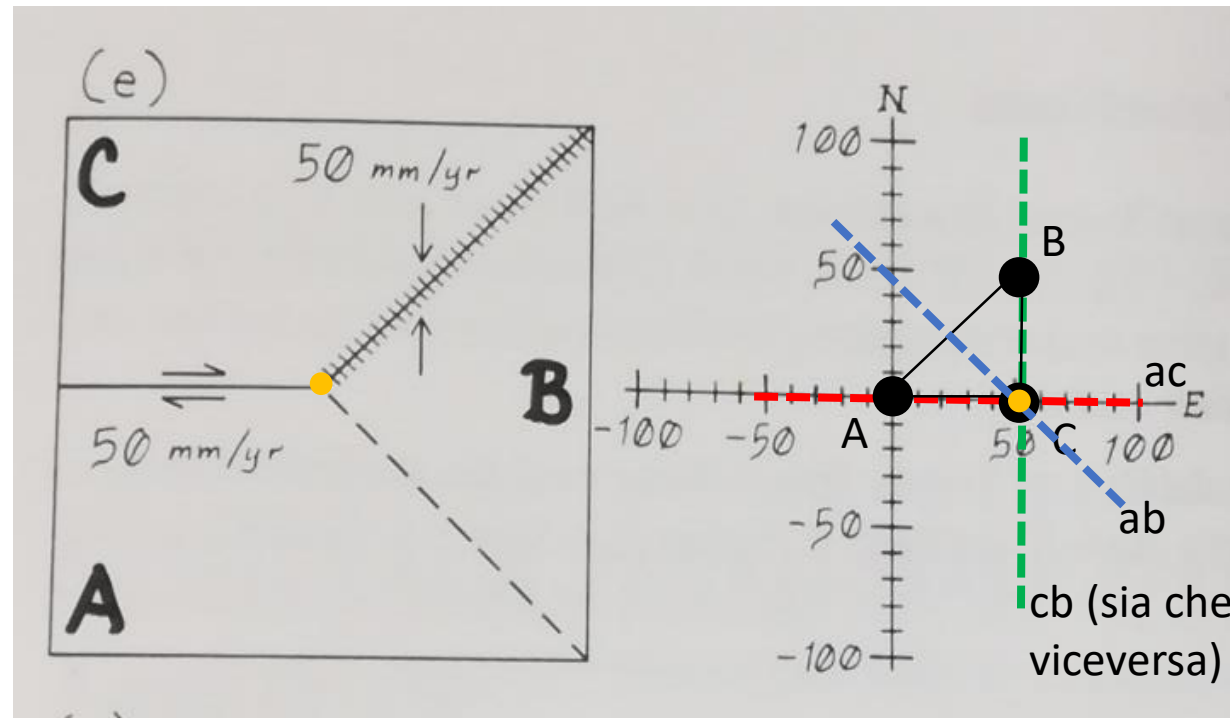
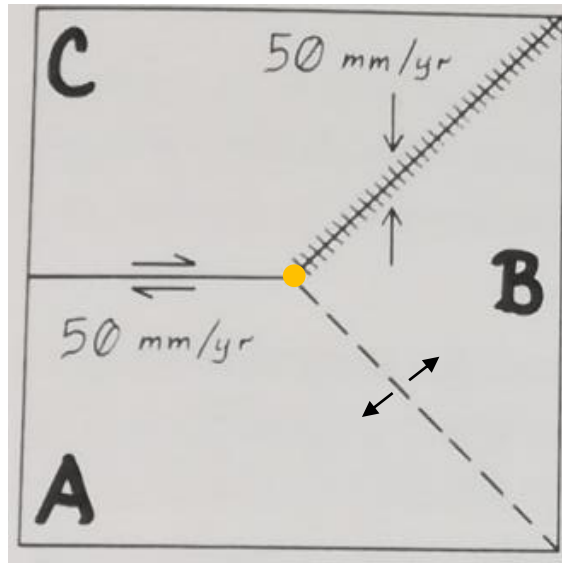
# Tettonica delle placche: esercizi



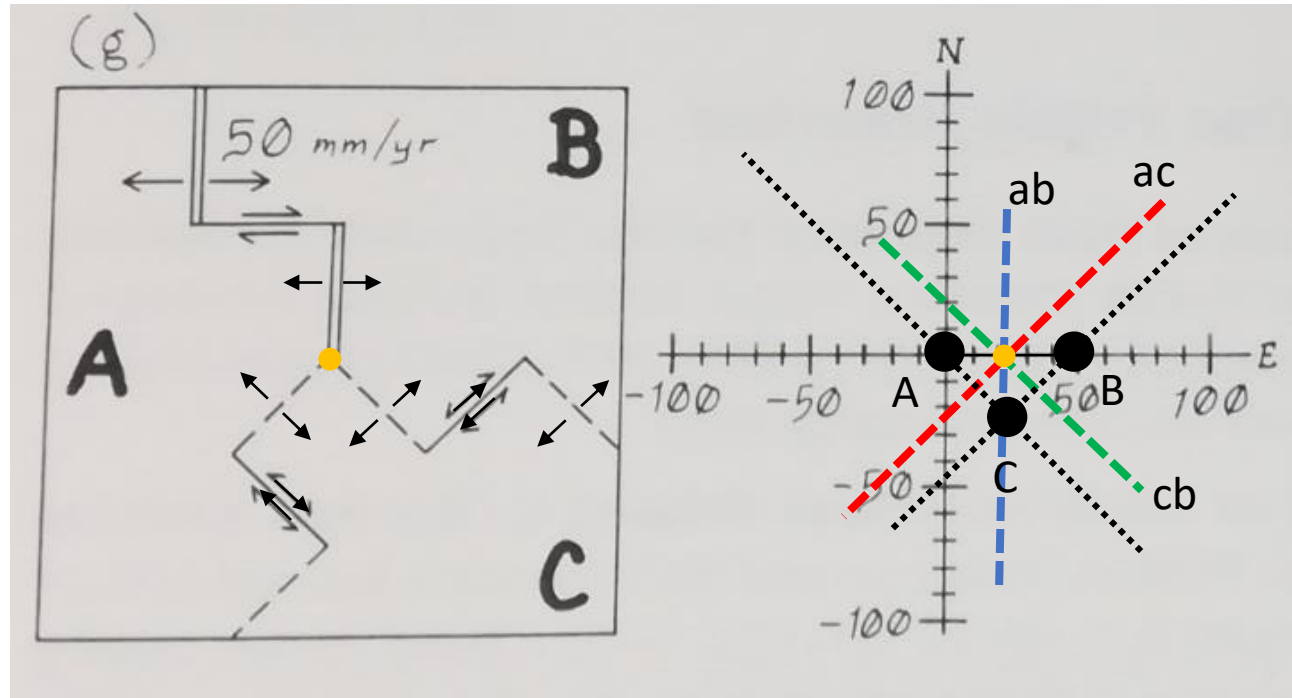
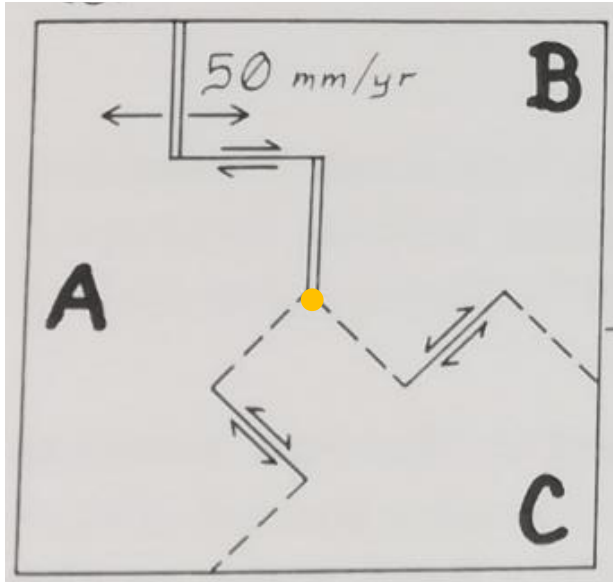
# Tettonica delle placche: esercizi



# Tettonica delle placche: esercizi

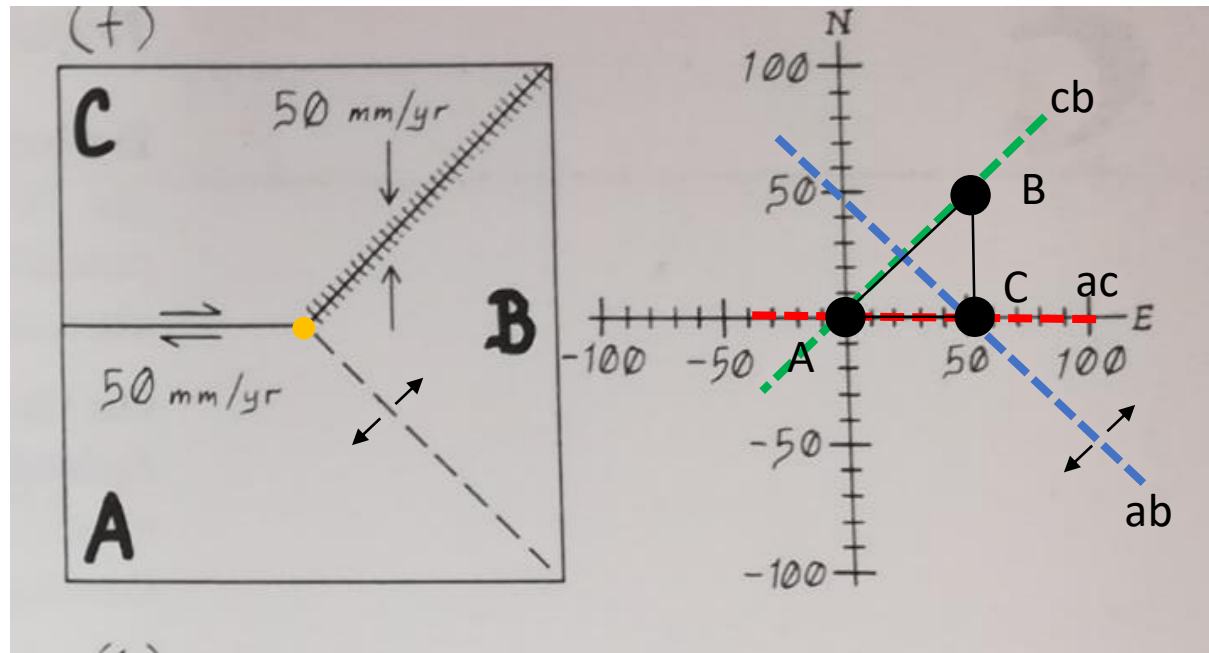
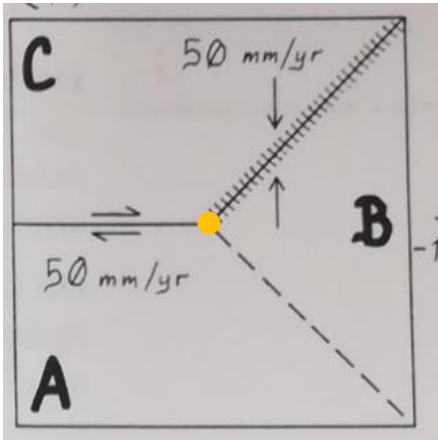


# Tettonica delle placche: esercizi

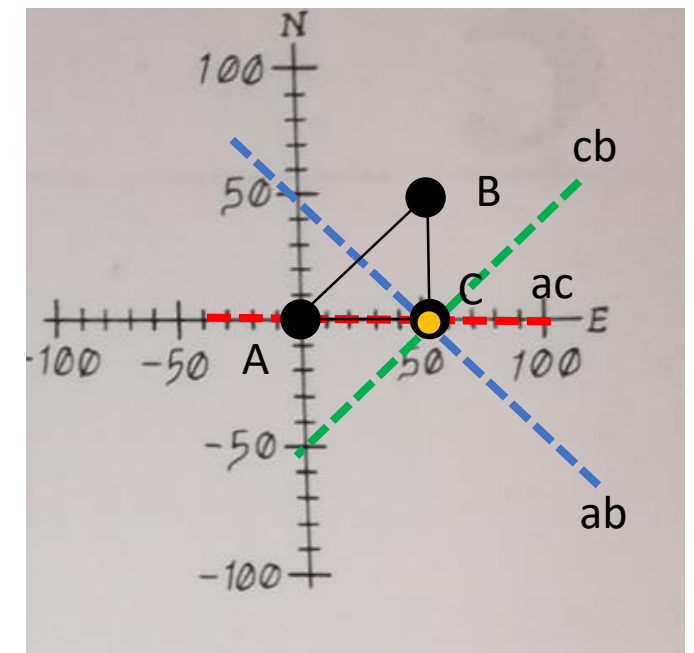




# Tettonica delle placche: esercizi

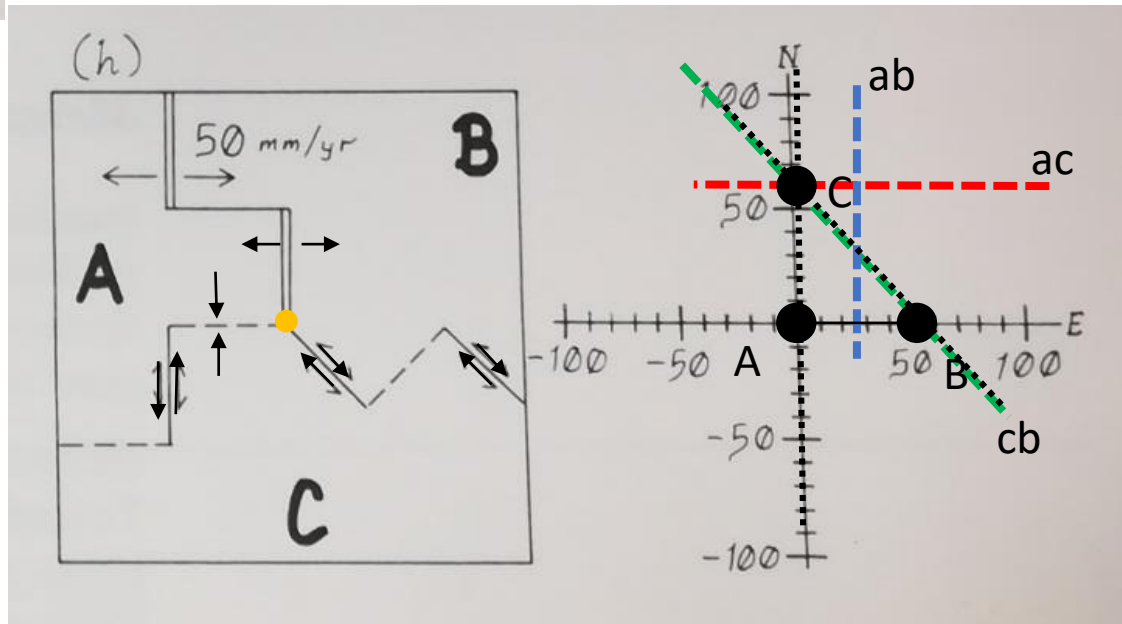
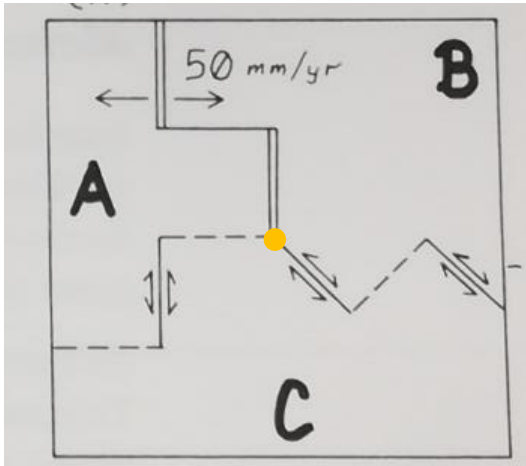


Caso in cui B sovrascorre su C

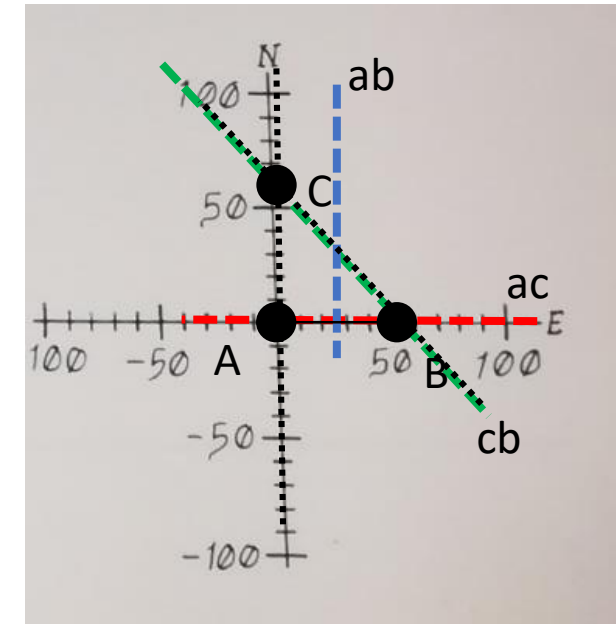


Caso in cui C sovrascorre su B

# Tettonica delle placche: esercizi



Caso in cui C sovrascorre su A



Caso in cui A sovrascorre su C



UNIVERSITÀ  
DEGLI STUDI  
DI TRIESTE

# Veronica Pazzi

Dipartimento di Matematica e Geoscienze

[veronica.pazzi@units.it](mailto:veronica.pazzi@units.it)

[www.units.it](http://www.units.it)