

MohrCirc is a program created for an advanced analysis of plane tension states and allows to know tension values and circle data.

For example if some data are known like two normal tension (10 MPa and 20 MPa) and a principal tension (5MPa):

Enter mohrcirc()

Mohr Circle

σ_{11} := 10
 σ_{22} := 20
 σ_{12} :=
 σ_I :=
 σ_{II} := 5
C:=
R:=

RUN QUIT
Enter=OK ESC=CANCEL

MAIN DEG AUTO FUNC 0/99

Enter

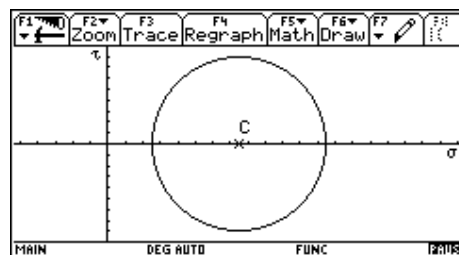
Mohr Circle

σ_{11} := 10
 σ_{22} := 20
 σ_{12} := -8.66
 σ_I := 25.00
 σ_{II} := 5
C:= 15.00
R:= 10.00

RUN QUIT
Enter=OK ESC=CANCEL

TYPE + (ENTER)=OK AND (ESC)=CANCEL

Enter



Enter

F1 Fundamental data

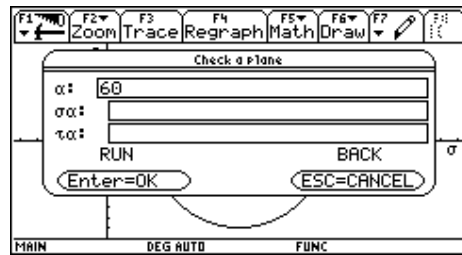
σ_I =25.00
 σ_{II} =5
 τ_{max} =10.00
 τ_{min} =-10.00
C=15.00
R=10.00

Check a specific plane→

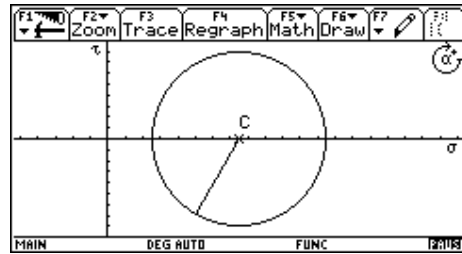
RUN QUIT
Enter=OK ESC=CANCEL

USE + AND - TO OPEN CHOICES

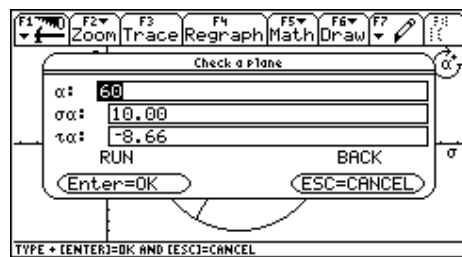
Enter



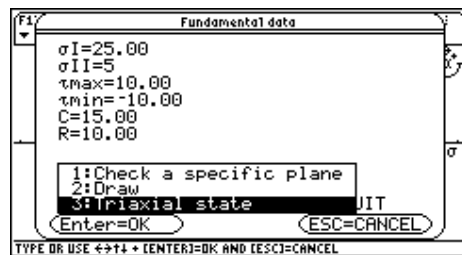
Enter



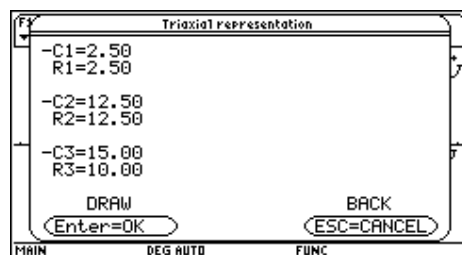
Enter



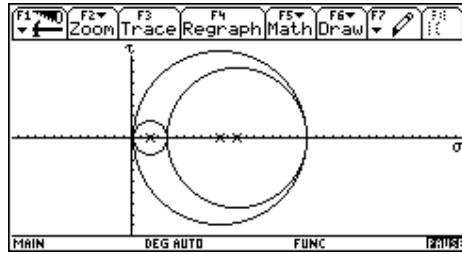
Esc



Enter



Enter



Enter
Esc
Esc

You can enter every datum you know, if consistent, and the program try to calculate the others. If data are inadequate an error message tells you.

When you check a specific plane and you enter $\sigma\alpha$ or $\tau\alpha$ the programs calculates a double solution and draws two lines on the circle.

This program has been already used many times without problems. If you finds any bug first assure you to have selected the English language in the mode and not to have translated the code with any program. If the problem persists please let me know.

For a better and faster answer please enclose some screenshot of the bug: entered inputs, expected outputs, error messages, erroneous code line, mode stetting... it will help me very much!

My address is paolosilingardi@interfree.it . Thank you very much for your help!

Paolo Silingardi