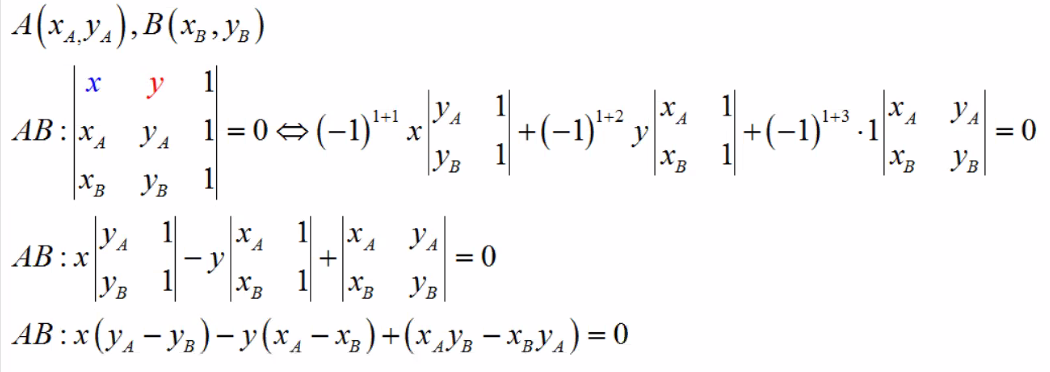
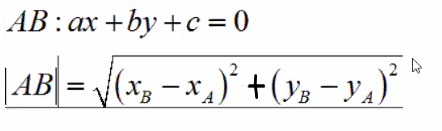
Geometrie computational

# Curs 1 (24.02.2021)

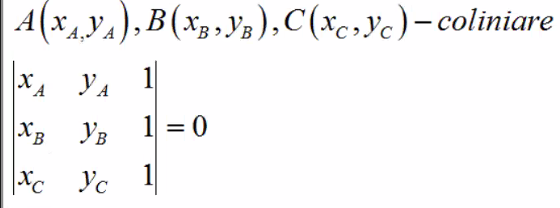
Ecuatia dreptei.



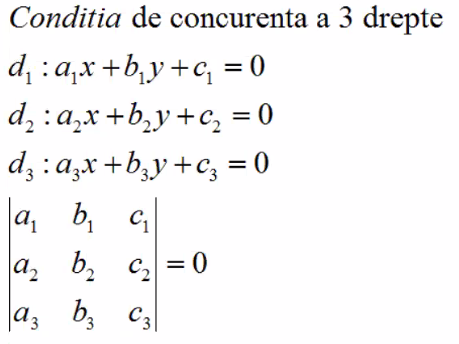
Distanta dintre doua puncte:



Conditia de coliniaritate:

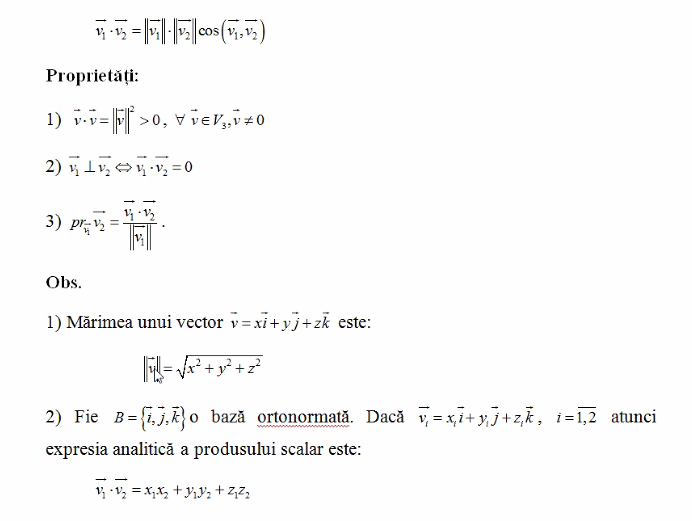


xA\*yB + xB\*yC + xC\*yA – xC\*yB – xB\*yA – xA\*yC = 0



a1\*b2\*c3 + a2\*b3\*c1 + a3\*b1\*c2 - a3\*b2\*c1- a2\*b1\*c3 – a1\*b3\*c2=0

# Curs 2 (03.03.2021)

1. Produsul scalar a doi vectori 

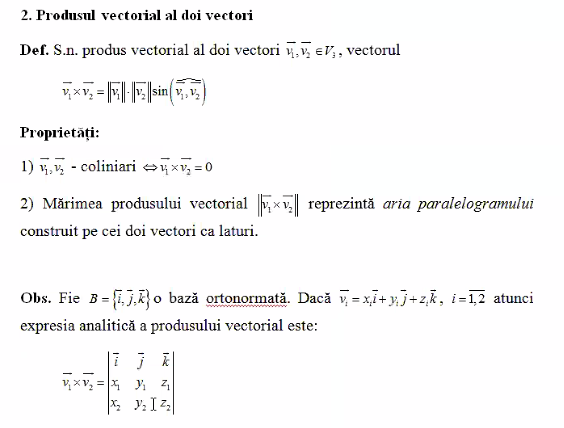
Se dau 2 vectori la care se introduce coordo de la tastatura (x,y,z). Sa se scrie programul de determinare al produsului scalar al vectorilor:

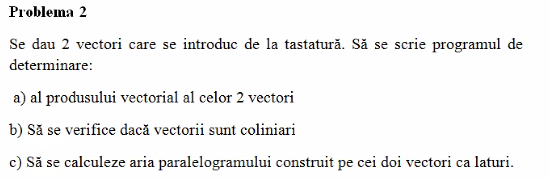
-sa se afiseze prod scalar.

-sa se verif. Daca vectorii sunt perpendicular.

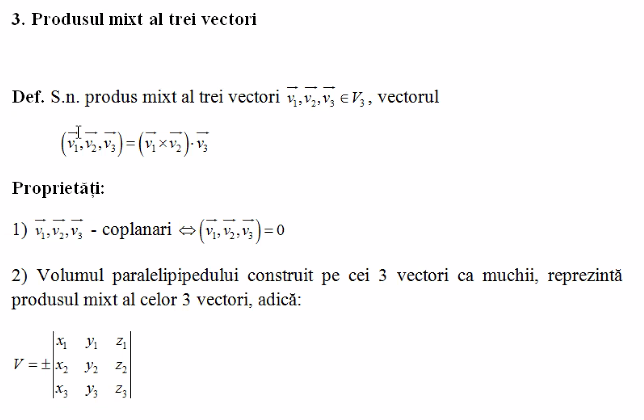
-sa se calculeze marimea celor doi vectori.

1. Produsul vectorial





V1\*v2=(y1\*z2- y2\*z1) i + (x2\*z1 -x1\*z2) j + (x1\*y2- x2\*y1) k



produsMixt=x1\*y2\*z3 + x2\*y3\*z1 + x3\*y1\*z2 – x3\*y2\*z1 – x1\*y3\*z2 – x2\*y1\*z3

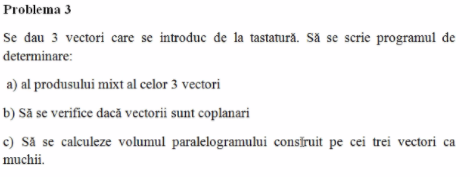
Pb3:

Se citesc 3 vectori. Afisati:

-Produsul mixt

-Daca sunt sau nu coplanar

-Volumul paralelipipedului



# Curs 3