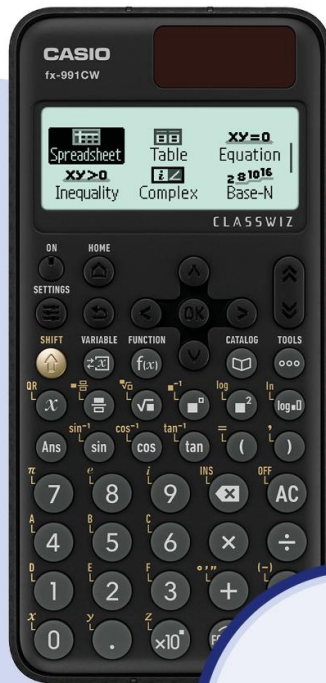


Matriser og determinanter

De fleste som studerer matematikk, fysikk eller tekniske fag vil støte på behovet for å regne med matriser og typisk finne determinanter. CASIO FX-991CW har en fin app for dette. Her definerer man først matrisene og regner deretter på disse.

CASIO
fx-82/85/991CW



CLASSWIZ

3in1



Matriser og determinanter

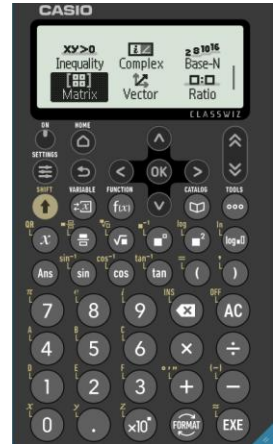
I denne oppgaven skal vi legge sammen to 2 x 2 matriser og deretter finne determinanten til den nye matrisen.

Gitt følgende to matriser A og B :

$$A = \begin{bmatrix} 3 & -1 \\ 2 & 4 \end{bmatrix}, \quad B = \begin{bmatrix} 1 & 5 \\ -3 & 2 \end{bmatrix}$$

Finns summen av matrisene, $C = A + B$

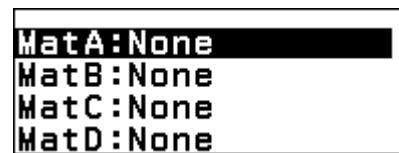
Finns deretter determinanten til den nye matrisen C .



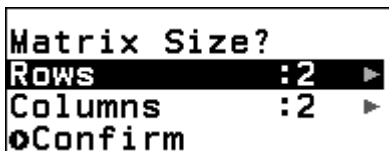
Bruken appen Matrix



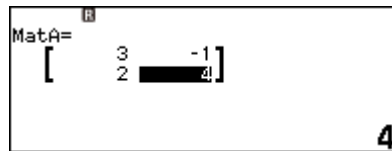
Trykk Tools for å definere matrisene



Bruk piltaster og OK



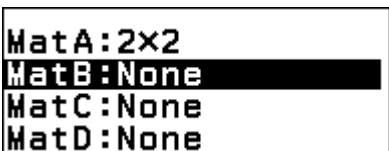
Endre og bekreft



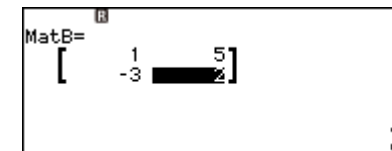
Tast inn dine verdier, først MatA



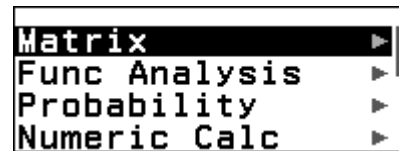
Klikk Tools og lagre, velg så Define Matrix



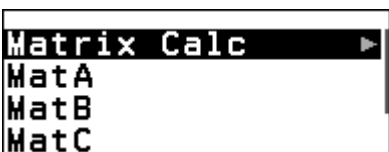
Definer matrisen



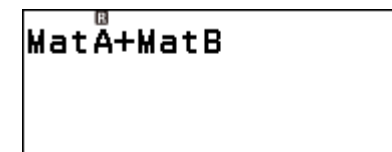
Tast inn dine verdier for MatB



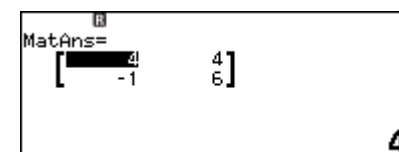
Velg så CATALOG og Matrix



Velg nå matriser som skal adderes

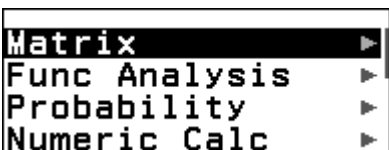


Vi ønsker å summere MatA+MatB

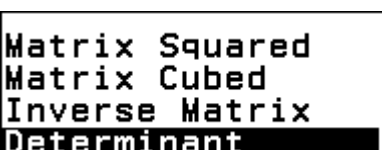


Her er de to matrisene summert

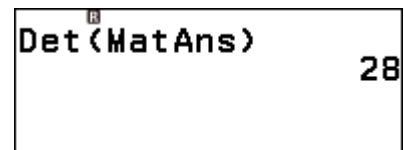
Vi skal nå finne determinanten til den nye matrisen, MatAns



Velg CATALOG



Pil deg fram til Determinant



Sett inn MatAns og trykk EXE.