



ELEMENTS OF ELECTRICAL ENGINEERING

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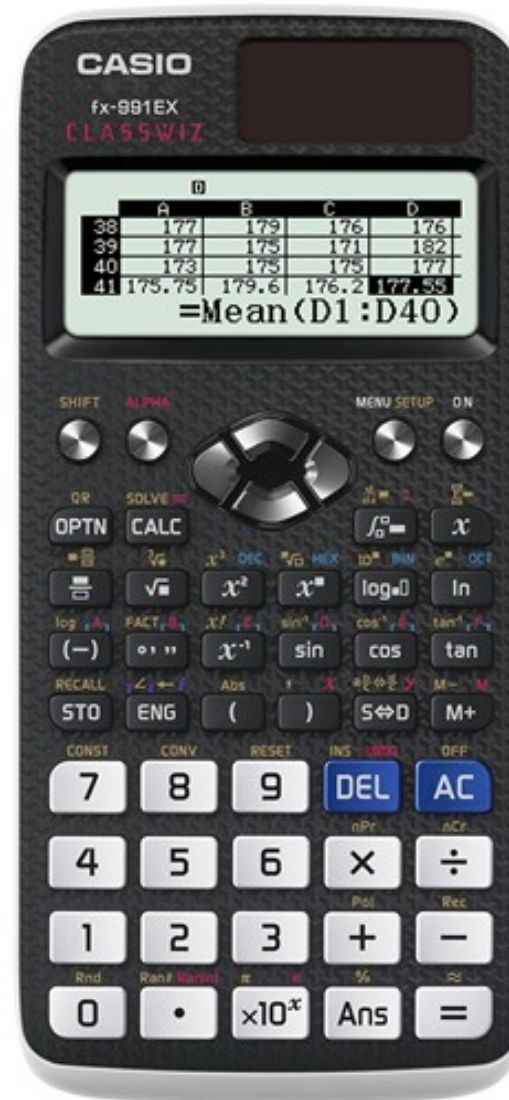
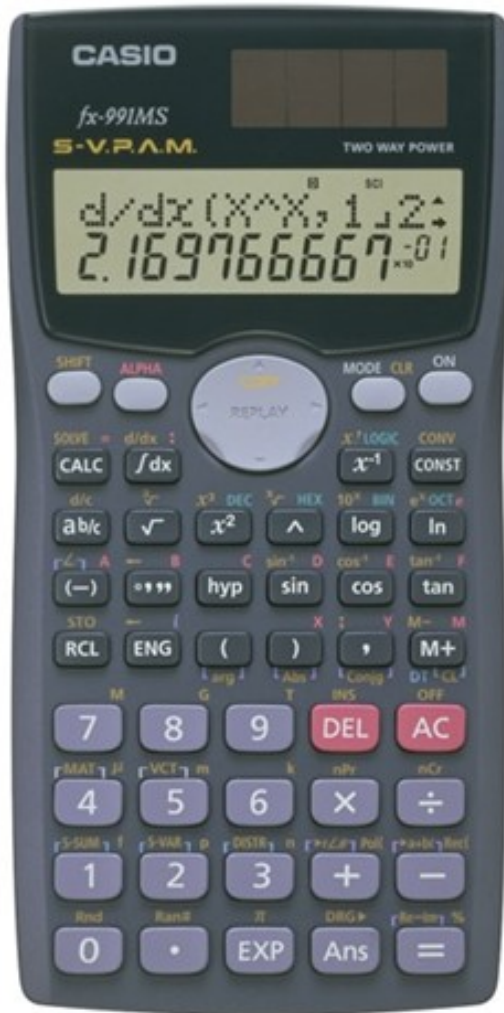
Usage of Calculator to solve Simultaneous Equations - (991MS, 991ES PLUS, 991EX & 991CW)

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Calculator Operation



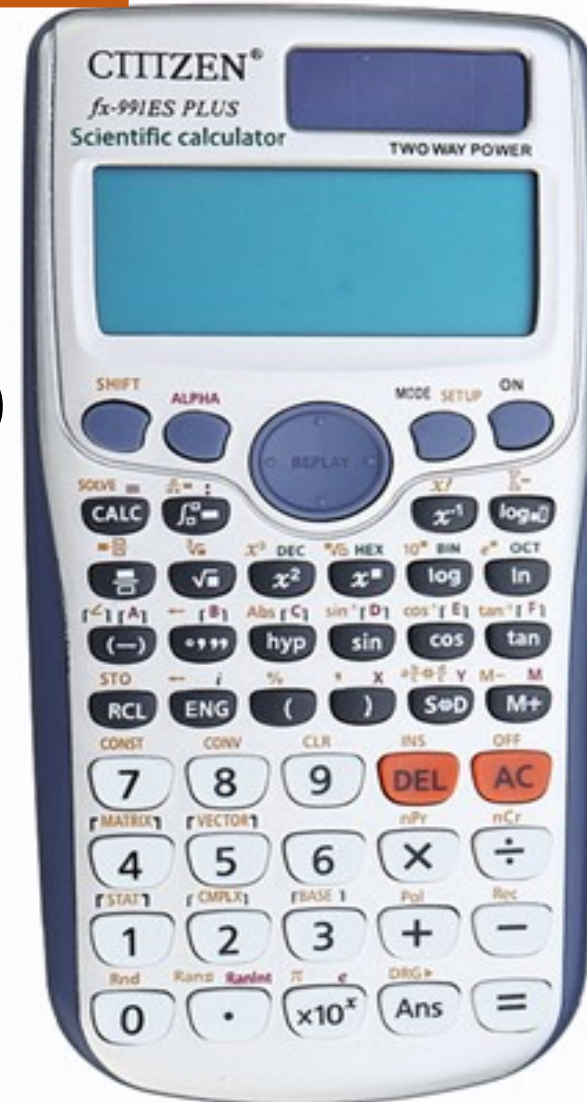
FX 991MS

- Press mode button 3 times, then select option 1.
- Select the number of unknowns
- Then enter a1, press =, enter b1, press= and so on
(Eg: $a_1X + b_1Y + c_1Z = d_1$)
- Similarly enter the coefficients of 2nd equation and so on.
- The solution will be in the order of X, Y, Z.



FX 991ES PLUS

- Press mode button, then select option 5 (EQN).
- Now select option 1 or option 2
(Option 1 is for 2 unknowns and option 2 is for 3 unknowns.)
- It will ask to fill the matrix with the coefficients of the equations.
(Eg: $a_1X + b_1Y + c_1Z = d_1$)
- The solution will be in the order of X, Y, Z.

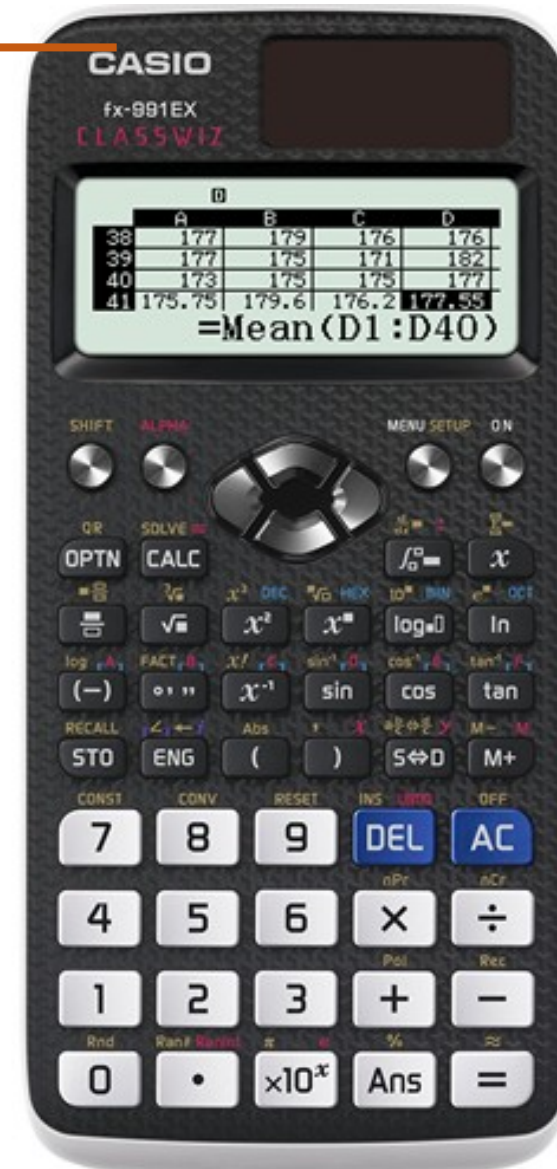


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Calculator Operation

FX 991EX

- Press menu button, navigate down and then select option A (XY=0) by pressing = button.
 - Now select option 1
 - Select number of unknowns by pressing that number.
 - It will ask to fill the matrix with the coefficients of the equations.
(Eg: $a_1X + b_1Y + c_1Z = d_1$)
 - The solution will be in the order of X, Y, Z.
- (NOTE: you can solve up to 4 number of unknowns in this calculator)**



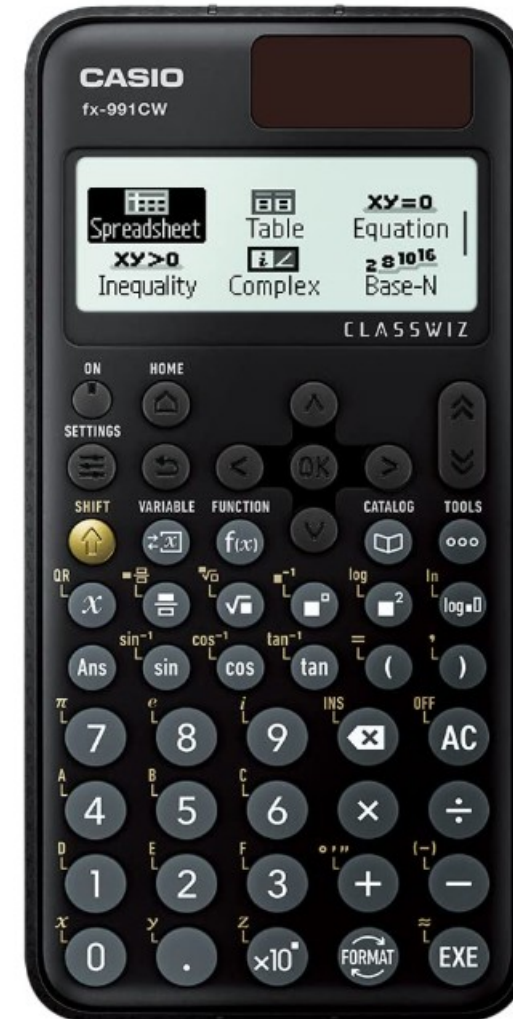
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Calculator Operation

FX 991CW

- Press Home button, navigate and then select the option $xy = 0$ (Equation) & press OK
- Now select “Simultaneous Equations” option & press OK
- Select number of unknowns & press OK
- It will ask to fill the matrix with the coefficients of the equations. After every entry in the matrix press EXE.
(Eg: $a_1X + b_1Y + c_1Z = d_1$)
- The solution will be in the order of X, Y, Z.

(NOTE: you can solve up to 4 number of unknowns in this calculator)





THANK YOU

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