

Casio fx-7700GE
Casio fx-9700GE
Casio CFX-9800G
Casio CFX-9850G

Simple Interest Program

This program can be used to find the amount of simple interest earned on a given principal at a given annual interest rate for a certain amount of time.

SIMPINT
 Fix 2↵
 “PRINCIPAL”? → P↵
 “INTEREST RATE”↵
 “IN DECIMAL FORM”? → R↵
 “NUMBER OF YEARS”? → T↵
 PRT → I↵
 “THE INTEREST IS”:I▲
 Norm

Quadratic Formula Program

This program will display the solutions of a quadratic equation or the words “No Real Solution.” To use the program, write the quadratic equation in general form and enter the values of a , b , and c .

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Solutions to quadratic equations are also available directly from the Casio calculator’s EQUATION MODE.

QUADRAT
 “ $AX^2+BX+C=0$ ”↵
 “A=”? → A↵
 “B=”? → B↵
 “C=”? → C↵
 B^2-4AC → D↵
 $D < 0 \Rightarrow$ Goto 1↵
 $(-B + \sqrt{D}) \div (2A)$ ▲
 $(-B - \sqrt{D}) \div (2A)$ ↵
 Goto 2↵
 Lbl 1↵
 “NO REAL SOLUTION”↵
 Lbl 2

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Both real and complex answers are given. Solutions to quadratic equations are also available directly from the Casio calculator’s EQUATION MODE.

QUADRAT
 “ $AX^2+BX+C=0$ ”↵
 “A=”? → A↵
 “B=”? → B↵
 “C=”? → C↵
 B^2-4AC → D↵
 $(-B + \sqrt{D}) \div (2A)$ ▲
 $(-B - \sqrt{D}) \div (2A)$

Two-Point Form of a Line

This program will display the slope and y -intercept of the line that passes through two points, (x_1, y_1) and (x_2, y_2) , entered by the user.

TWOPTFM
 “ENTER X1, Y1”? → X: ? → Y↵
 “ENTER X2, Y2”? → C: ? → D↵
 $(D - Y) \div (C - X)$ → M↵
 $M \times (-X) + Y$ → B↵
 “SLOPE =”:M▲
 “Y-INT =”:B

Graph Reflection Program

This program will graph a function f and its reflection in the line $y = x$. To use this program, enter the function in f_1 .

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To use this program, enter the function in f_1 .

REFLECT
 “GRAPH -A TO A”↵
 “A=”? → A↵
 Range -A,A,1,-2A÷3,2A÷3,1↵
 Graph $Y=f_1$ ↵
 -A → B↵
 Lbl 1↵
 B → X↵
 Plot f_1, B ↵
 $B+A \div 32$ → B↵
 $B \leq A \Rightarrow$ Goto 1:Graph $Y=X$

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To use this program, enter a function in f_1 and set a viewing rectangle.

```
REFLECT
63Xmin÷127 → A↵
63Xmax÷127 → B↵
Xsc1 → C↵
Range , , , A, B, C↵
(Xmax-Xmin)÷126 → I↵
Xmax → M↵
Xmin → D↵
Graph Y=f1↵
Lbl 1↵
D → X↵
Plot f1,D↵
D+I → D↵
D≤M⇒Goto 1:Graph Y=X
```

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To use this program, enter a function in f_1 and set a viewing rectangle.

```
REFLECT
63Xmin÷95 → A↵
63Xmax÷95 → B↵
Xsc1 → C↵
Range , , , A, B, C↵
(Xmax-Xmin)÷94 → I↵
Xmax → M↵
Xmin → D↵
Graph Y=f1↵
Lbl 1↵
D → X↵
Plot f1,D↵
D+I → D↵
D≤M⇒Goto 1:Graph Y=X
```

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Use the program for the Casio fx-9700GE and replace the line “Range , , , A,B,C,↵” with “View Window , , , A,B,C,↵.”

Systems of Linear Equations Program

This program will display the solution of a system of two linear equations in two variables of the form

$$ax + by = c$$

$$dx + ey = f$$

if a unique solution exists. Solutions to systems of linear equations are also available directly from the Casio calculator’s EQUATION MENU.

```
SOLVE
“AX+BY=C”↵
“A=:”? → A↵
“B=:”? → B↵
“C=:”? → C↵
“DX+EY=F”↵
“D=:”? → D↵
“E=:”? → E↵
“F=:”? → F↵
AE-DB=0⇒Goto 1↵
“X:“(CE-BF)÷(AE-DB)▲
“Y:“(AF-CD)÷(AE-DB)↵
Goto 2↵
Lbl 1↵
“NO UNIQUE SOLUTION”↵
Lbl 2
```