

Casio fx-7700G

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 .

```
QUADRAT
"AX2+BX+C=0"
"A="? → A
"B="? → B
"C="? → C
B2-4AC → D
D<0 ⇒ Goto 1
"X=":(-B+√D)÷(2A)▲
"OR X=":(-B-√D)÷(2A)
Goto 2
Lbl 1
"NO REAL SOLUTION"
Lbl 2
```

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)÷(C-X) → M
M×(-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 f1.

```
REFLECT
"GRAPH -A TO A"
"A="? → A
Range -A,A,1,-2A÷3,2A÷3,1
Graph Y=f1
-A → B
Lbl 1
B → X
Plot f1,B
B+A÷32 → B
B≤A ⇒ Goto1 :Graph Y=X
```

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.

```
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
```