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
```

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
```