Quadratic Project Design

User input a, b, c.

Set valid=false

If (a is not 0) then

Valid is true

Else

Output: “not a quadratic formula”

End if

if(valid is true) then

set realNum = 0

set realResult = 0

set plusNumerator= 0

set subNumerator =0

set denom = 2\*a

set plusResult = 0

set subResult= 0

set result = 0

set realPart =0

set imagPart =0

set disc ((b^2)-(4\*a\*c))

set negB = b\*(-1)

if (disc<0) then

realNum = disc\*(-1)

realResult = sqrt(realNum)

realPart = negB/denom

imagPart = realResult/denom

plusResult = realPart “ + “ imagPart + “i”

subResult = realPart “ - “ imagPart + “i”

output: The result is plusResult and subResult

end if

if (disc >0) then

realResult = sqrt(disc)

plusNumerator = negB + realResult

subNumerator = negB – realResult

plusResult = plusNumerator/denom

subResult = subNumerator/denom

output: The result is plusResult and subResult

end if

if (disc ==0) then

result = negB/denom

output: The result is result

end if

end if