```
a+bi
Degree
Fix 4
FnOff
PlotsOff
ClrHome

Disp "*+*+*+*+*+*+*+*+"
Disp ""
Disp "    COMPLEX"
Disp "     ROOTS"
Disp ""
Disp ""
Disp "*+*+*+*+*+*+*+*+"

Pause
ClrHome

Disp "FIND ROOTS FOR"
Disp "(a+bi)^(1/n)"

Prompt A
Prompt B
Prompt N

√(A² +B² )→R

If A≠Ø
Then
tan⁻¹(B/A)→θ

If (A<Ø and B<Ø)
Then
(18Ø+θ)→θ

:Else
:If (A<Ø and B>Ø)
Then
(18Ø-θ)→θ

Else
If (A>Ø and B<Ø)
Then
(36Ø-θ)→θ

:::End
::End
:End

Else
If B>Ø
Then
9Ø→θ

Else
27Ø→θ

End
```

```
End

Disp "ORIGINAL NUMBER"
A+Bi→X
Disp X
Disp "ROOTS"

For(K,Ø,N-1,1)
(R^(1/N))→S
:cos((θ+36ØK)/N)→C
:sin((θ+36ØK)/N)i→D

:Disp (S*C)+(S*D)


Pause


End

Float
Stop
```