File Name: DIF.8XP Type: Program Protected: No
Comment:Program file Ø5/21/13, 1Ø:59

```
a+bi
Fix 2

ClrHome
Disp "GENERAL SOLUTION"
Disp "C=1, Y="

If O=1
Then
prgmDEQ2
Pause
ClrHome
End

If O=2
Then
If imag(M)≠Ø
Then
Output(3,1,"e^"
Output(3,3,real(M)
Output(3,7,"X(cos("
Output(3,13,imag(M))
Output(4,2,"X)+sin("
Output(4,9,imag(M))
Output(4,13,"X))")
Pause
ClrHome
End
End

If O=2
Then
If imag(M)=Ø
Then
prgmDEQ2
Disp ""
End
End

If O=3
Then
If imag(M)≠Ø
Then

Output(3,1,"e^")
Output(3,3,P)
Output(3,7,"X+e^")
Output(3,11,real(M))
Output(3,15,"X")
Output(4,2,"(cos(")
Output(4,7,imag(M))
Output(4,11,"X+sin(")
Output(5,1,imag(M))
Output(5,5,"X))")

Pause
ClrHome
End
```

```
End

If O=3
Then
If imag(M)=Ø
Then
If M=N and N=P
Then
Output(3,1,"e^")
Output(3,3,M)
Output(3,7,"X+Xe^")
Output(3,12,M)
Output(4,2,"X+X² e^")
Output(4,8,M)
Output(4,12,"X")
Pause
ClrHome
End
End
End
If O=3
Then
If imag(M)=Ø
Then
If M=N and M≠P
Then
Output(3,1,"e^")
Output(3,3,P)
Output(3,7,"X+e^")
Output(3,11,M)
Output(3,15,"X+")
Output(4,2,"Xe^"
Output(4,5,M)
Output(4,9,"X")
Pause
ClrHome
End
End

If O=3
Then
If imag(M)=Ø
Then
If M=P and M≠N
Then
Output(3,1,"e^")
Output(3,3,M)
Output(3,7,"X+e^")
Output(3,11,N)
Output(3,15,"X+")
Output(4,2,"Xe^")
Output(4,5,N)
Output(4,9,"X")
Pause
ClrHome
End
End

If O=3
Then
If imag(M)=Ø
```

```
Then
If N=P and M≠P
Then
Output(3,1,"e^")
Output(3,3,M)
Output(3,7,"X+e^")
Output(3,11,N)
Output(3,15,"X+")
Output(4,2,"Xe^")
Output(4,5,N)
Output(4,9,"X")
Pause
ClrHome
End
End

If O=3
Then
If imag(M)=Ø
Then
If M≠N and N≠P and M≠P
Then
Output(3,1,"e^")
Output(3,3,M)
Output(3,7,"X+e^")
Output(3,11,N)
Output(3,15,"X+")
Output(4,2,"e^")
Output(4,4,P)
Output(4,8,"X")
Pause
ClrHome
End
End

If O=1
Then
Disp "A"
prgmDEQ2
Pause
ClrHome
End

Stop
```