

PROGRAMMING IN TI BASIC

For my final project I created a set of calculator programs for the AP Physics class this includes a set of .8xg files and txt files.

These files are publicly available for everyone.

this will have functions for:

- Circular motion - centripetal acceleration and gravitation

- kinematic equation - 3 basic equations, MultiDirectional

- MultiDirectional- took it from someone else and lost the original file, couldn't understand it.

- mechanical energy - Kinetic", "Potential," "Spring" Work," "Power,"

- momentum -

- torque - taken from someone else, I don't remember who.

- vector addition - taken from someone else, I don't remember who.

- Waves - things like spring motion periods and oscillations - are taken from someone else. I don't remember who.

It will have three folders -

- txt files: copy and paste of the .8xg but in a text editor friendly formant.

- .8xg files to run on the calculator.

- "not made" collection of files I didn't make but you might find helpful if you can get it to work

PROGRAMMING IN TI BASIC

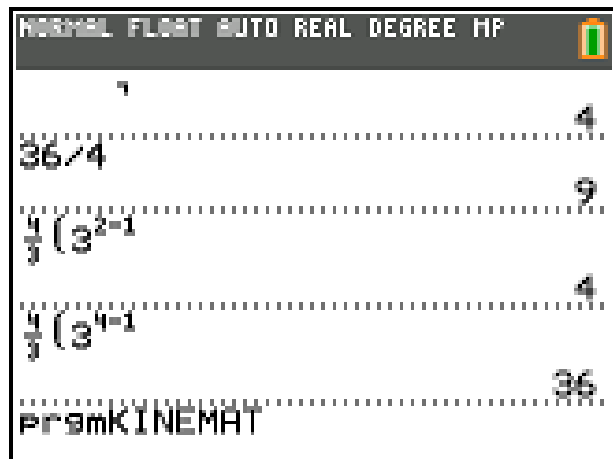
This is a QR code to the git repository or use this link:

<https://github.com/DiegoTRW/Ap-Physics-calculator.git>



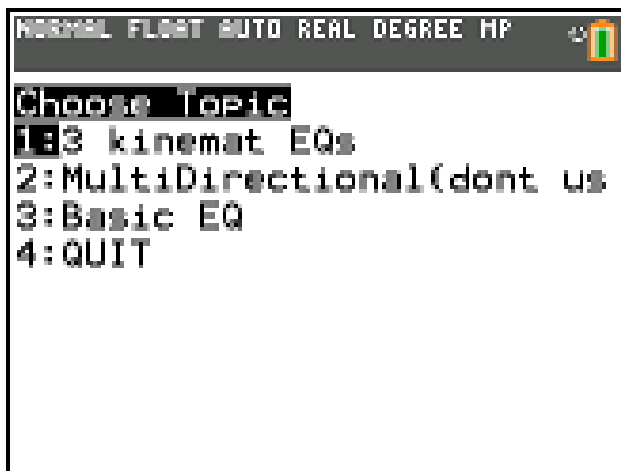
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Pictures from my calculator:

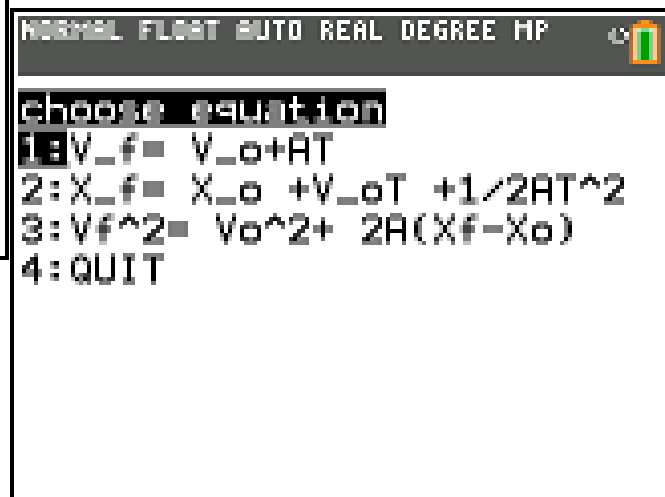


The first is the prgm screen to access the programs

Then is the activation command.



Inside the option for KINEMAT program



This is in the 3 kinmat EQs
where you choose the
equation want to use

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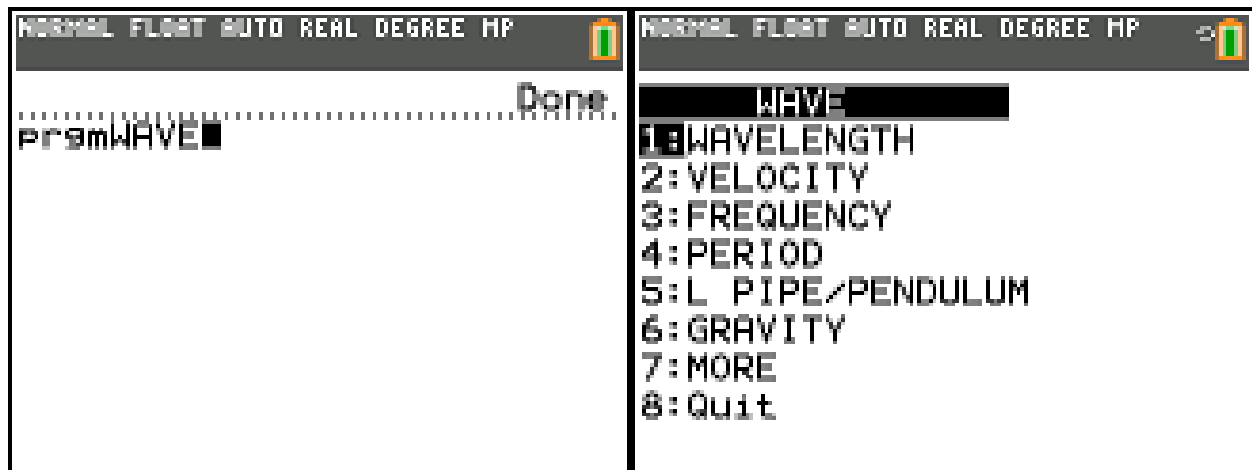
```
NORMAL FLOAT AUTO REAL DEGREE HP
missing variable
1:Vf
2:Vo
3:A
4:ΔX
5:Xf
6:Xo
7:QUIT
```

This is after choosing the equation, you choose the equation you are solving for.

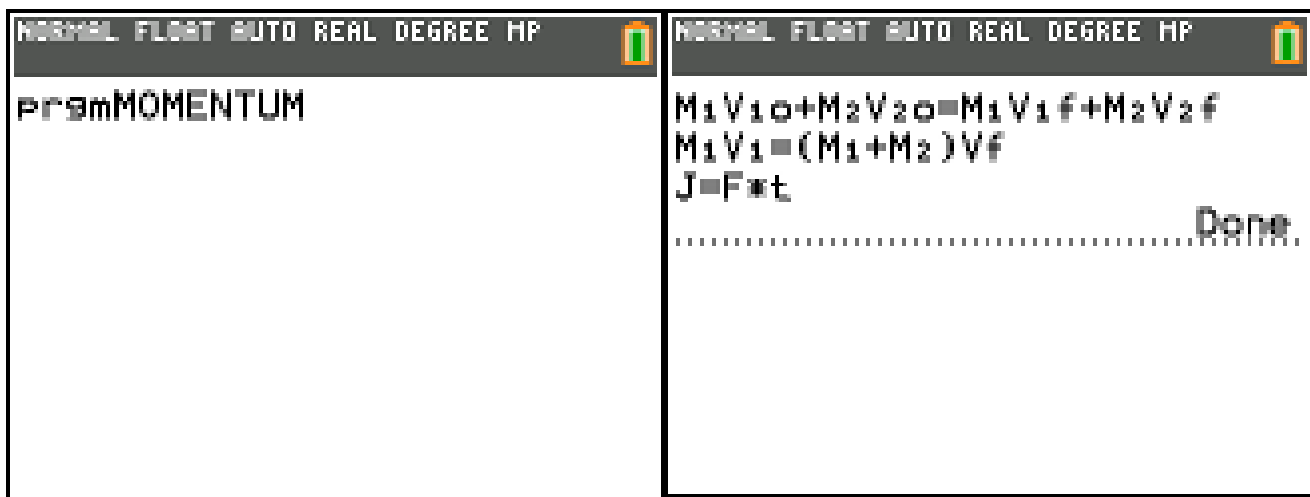
The top line is original equation, the next line is the derivative for variable that is being solved for

```
NORMAL FLOAT AUTO REAL DEGREE HP
Vf^2= Vo^2+ 2A(Xf-Xo)
ΔX= (V_f^2-V_o^2)/2A
V_f> 8
V_o> 2
A> 6
.....5
Done.
```

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This is in the WAVE program and option given.



This is the Momentum program.

There are no calculations for it, it just stores equations.