

Forum: [Hack Forums](#)

Thread: [Graphing Calculator \(My Version\)](#)

WOLGA - January 6, 2014, 10:20 am
Credits to Icarus for idea.

Here's one example of it in action:

Example [\(Click to View\)](#)

And here's the source:

[illegible]

```
:equation
for /L %%A in (-10,1,10) do (
for /L %%B in (-10,1,10) do (
set "%%A.%%B=ÄÄ"
))
for /L %%A in (-10,1,10) do (
set /a y=!input:x=%%A!
set /a y=!input:X=%%A!
echo !y!
set !y!.%%A=±Ä
)
exit/b
```

Or... if the formatting is screwing up, use the DL instead, here:

<http://www.mediafire.com/download/8tn8iveo91vkhn9/Project.bat>

Enjoy! ?

Options - January 6, 2014, 10:51 am

But it.. it hurts my eyes! My eyes are burning >:c

I'm not sure where you would actually need this for, but It is indeed a nice creation.

WOLGA - January 6, 2014, 11:16 am

(Jan 6, 2014 11:51 AM)Options Wrote: [\[CITE\]](#) But it.. it hurts my eyes! My eyes are burning >:c

I'm not sure where you would actually need this for, but It is indeed a nice creation.

Well, it's a calculator. A graphing one. And I can't tell if

Quote:But it.. it hurts my eyes! My eyes are burning >:c is supposed to be an insult or not.

iHockey - January 6, 2014, 11:17 am

Don't listen to that guy, he's just trying to be a jackass...

Diamond Heart - January 30, 2014, 7:24 am

great job man, it is really nice!!!!

Ebony - January 30, 2014, 2:11 pm

Wow that's seriously amazing. Great work

MrCortex - January 30, 2014, 4:50 pm

Woow this looks funny.

But i don't know who will use this, because i need a stronger glasses after using it ?

Well done OP for this funny peace of code.?

vaan - January 30, 2014, 5:39 pm

Great job, if you can code like tha. Awesome

Creatorofall - February 2, 2014, 1:04 am

Good work man, can't wait till I learn a bit more.

WOLGA - February 5, 2014, 7:39 pm

Thanks guys! This is just an example of what batch can do. Check out other members work too!

Ebony - February 5, 2014, 10:46 pm

Its very good. I could not create this. But maybe as a challenge, make it be able to go above 10. Or accepts something such as $1/2x + 5$. But again nice:)

6577657534735 - February 5, 2014, 11:39 pm

Wow this is awesome

It's so simply written, if I tried to make this it would definitely take me way more lines

Very HQ

annikk.exe - February 6, 2014, 12:50 am

Great idea and brilliant execution. Your code is elegant, friend. :> Another HQ batch thread, w00t!

WOLGA - February 6, 2014, 6:05 pm

(Feb 6, 2014 01:50 AM)annikk.exe Wrote: [\[CITE\]](#) Great idea and brilliant execution. Your code is elegant, friend. :> Another HQ batch thread, w00t!

Haha, definetly thank Icarus for the idea. As for everything else, thanks! ?

?CARUS L?VE?™ - February 6, 2014, 6:24 pm

(Feb 6, 2014 07:05 PM)Qwertyuiopasdfghjklzxc Wrote: [\[CITE\]](#) Haha, definetly thank Icarus for the idea. As for everything else, thanks! ?

Thank you for credit on the idea. Everyone else failed to recognize that.

WOLGA - February 6, 2014, 9:25 pm

(Feb 5, 2014 11:46 PM)-????Ü?D-?????- Wrote: [\[CITE\]](#) Its very good. I could not create this. But maybe as a challenge, make it be able to go above 10. Or accepts something such as $1/2x + 5$. But again nice:)

$x/2+5$ works?

BanEvader - February 7, 2014, 11:04 am

This is very well done. The code is short and concise, but suffers from Batch's poor-looking syntax.

I tried to improve the readability a bit, by renaming a few things and adding more sub-routines.

Code @echo off & setlocal enabledelayedexpansion

mode con cols=51 lines=35

color 0f

title %~n0

REM Setup constants

set pi=3

set e=2

call :clearGraph

goto :main

:main

call :dispGraph

set /p equation="[Equation] Y = "

call :clearGraph

call :drawGraph

goto :main

I needed this for my math homework. Thank you so much dude.

Ebony - February 7, 2014, 3:24 pm

(Feb 6, 2014 10:25 PM)Qwertyuiopasdfghjklzxc Wrote: [\[CITE\]](#) $x/2+5$ works?

Yes that works, but $1/2x+3$ or maybe $3/4x+2$ doesn't. Maybe add fraction support?

WOLGA - February 7, 2014, 3:59 pm

(Feb 7, 2014 04:24 PM)-????Ü?D-?????- Wrote: [\[CITE\]](#) Yes that works, but $1/2x+3$ or maybe $3/4x+2$ doesn't. Maybe add fraction support?

I see what you are saying, batch handles math like this very weirdly.

For example, I have, set $x=6$, and then set/a $y=5x$.

Any person in pre-algebra would say this y is 30, but batch hasn't been to pre-algebra yet, and just concatenates the two, yielding 56.

(Feb 7, 2014 12:04 PM)BanEvader Wrote: [\[CITE\]](#) This is very well done. The code is short and concise, but suffers from Batch's poor-looking syntax.

I tried to improve the readability a bit, by renaming a few things and adding more sub-routines.

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call :dispGraph

set /p equation="[Equation] Y = "

call :clearGraph

call :drawGraph

goto :main

:clearGraph

for /L %%Y in (-10,1,10) do (

for /L %%X in (-10,1,10) do (

set "%%Y.%%X=ÄÄ"

)

)

exit /b

:drawGraph

for /L %%X in (-10,1,10) do (

set x=%%X

set /a y=!equation!

set !y!.%%X=±Ä

)

exit /b

:dispGraph

```
:createBuffer
for /L %%Y in (-10,1,10) do (
    set line%%Y=
)
set 0.0=ÎÄ
for /L %%Y in (-10,1,10) do (
    for /L %%X in (-10,1,10) do (
        set line%%Y=!line%%Y!!%%Y.%%X!
    )
)
exit /b
```

I'm not sure if this is normal or not, but messy looking code helps me think. Also, your namings are off by a little. But hey, if this is what you want to distribute, go for it.

AndreeU17 - February 8, 2014, 11:58 am

thats so creative ! I like it! A lot hahah very nice work very well appreciated

(Oct 20, 2014 04:43 PM)annikk.exe Wrote: [\[CITE\]](#) Yes, possibly... but you should make a new thread, or reply to your old one, instead of hijacking this thread. :>
I choose to reply/"b?mp"!

What should I add/improve to my calculator?

(Oct 20, 2014 09:03 PM)Qwertyuiopasdfghjklzxc Wrote: [\[CITE\]](#) I choose to reply/"b?mp"!

What should I add/improve to my calculator?

Not sure if you saw my response, but add options to change the scale and coverage of the graph.

annikk.exe - October 21, 2014, 1:20 am

Support for Sin, Cos and Tan would be something to consider, I suppose. :> They aren't in batch by default, you would need to create lookup tables.

gogglebot - October 21, 2014, 9:09 am

This is quite awesome. Not owning a graphical calculator this may help me xD

WOLGA - October 21, 2014, 3:59 pm

(Oct 20, 2014 10:28 PM)White Light Wrote: [\[CITE\]](#) Not sure if you saw my response, but add options to change the scale and coverage of the graph.

Definitely a requirement, but now I have to rewrite the whole code. ?

White Light - October 21, 2014, 4:43 pm

(Oct 21, 2014 01:20 AM)annikk.exe Wrote: [\[CITE\]](#) Support for Sin, Cos and Tan would be something to consider, I suppose. :> They aren't in batch by default, you would need to create lookup tables.

Lookup tables? Ewwwww...

Then again, the calculations to approximate sin at least semi-accurately require very large numbers, which exceed the limit of batch alone. Using the Taylor Approximation, anything $0 < x < \pi$ seems to be decently accurate, but I can't improve it without completely blowing through the limits of batch's numbers.

?CARUs L?VE?™ - October 21, 2014, 4:48 pm

(Oct 21, 2014 04:43 PM)White Light Wrote: [\[CITE\]](#) Lookup tables? Ewwwww...

Then again, the calculations to approximate sin at least semi-accurately require very large numbers, which exceed the limit of batch alone. Using the Taylor Approximation, anything $0 < x < \pi$ seems to be decently accurate, but I can't improve it without completely blowing through the limits of batch's numbers.

Let alone the fact that there may or may not be decimals instead of true integers.

White Light - October 21, 2014, 5:02 pm

(Oct 21, 2014 04:48 PM)?CARUs L?VE?™ Wrote: [\[CITE\]](#) Let alone the fact that there may or may not be decimals instead of true integers.

Oh, I hadn't even bothered to calculate the end result yet. This was just in order to create an equation to approximate it. For example, $\sin(1)$ [in radians] is approximately

Code $\text{appr} = 1 + (-1/6) + (1/120) + (-1/5040) + (1/362880) + (-1/39916800)$

$\text{appr} = 0.84147098464$

$\text{actu} = 0.8414709848$ The error increases the larger the angle is, and it reaches a point where it suddenly veers way off course due to the inaccuracies of using Taylor approximations and the limitations of batch.

That's only a $n=5$ approximation though. As I increase n , it becomes more accurate, however batch is incapable of calculating the factorials of such large numbers. Pretty much, batch is incapable of calculating anything required to approximate sine, from doing factorials to the fractions to the final sum.