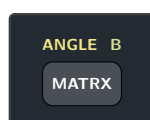
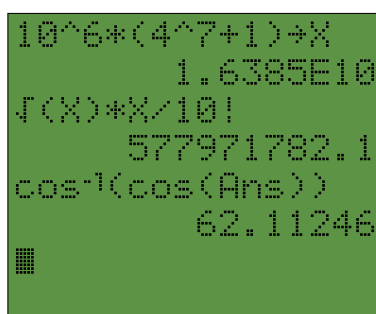


TI calculator screen (and buttons)

TI-82 STATS, TI-84

Mustafa Ibrahim, Caleb Bibb

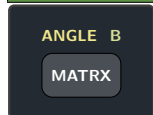
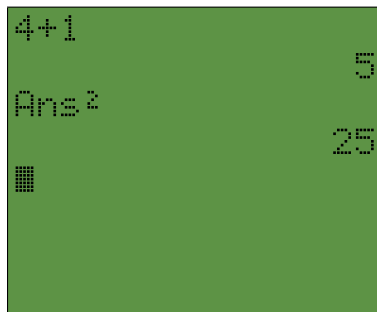
2021-12-18



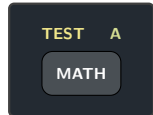
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1 Quickstart



Lorem  ipsum



Source

```

1 %\usepackage[color]{tiscreeen}
2
3 \tiscreeen
4 |4+1          |
5 |             |5|
6 |Ans{sq}      |
7 |             |25|
8 |{fcur}       |
9 |             |
10 |             |
11 |             |
12
13 \tibtnmatrixextra
14
15 Lorem
16 \tibtn[white]{tibtngray}{MATH}
17 ipsum
18
19 \tibtnextra{\tibtn[white]{tibtngray}{MATH}}{TEST}{A}

```

2 Package option(s)

2.1 Color

Using the `color` option will change the colors used by the `\LCD` command for printing the screen using `\tiscreeen`. The colors are defined as `tiscreeenfg` (foreground, i.e. font color) and `tiscreeenbg` (background) and redefined like this:

Source

```

1 % Add this to your preamble
2 \definecolor{tiscreeenbg}{HTML}{5d9345}
3 \definecolor{tiscreeenfg}{HTML}{FFFFFF}

```

Part I

Screen

3 LCD size

The default LCD size is 8×16 (the size of the TI-82 STATS). It can be changed by redefining the variables used to determine the size of the display or by using the original `\LCD` command.

Source

```
1 % First method (For entire document)
2 \def\tiscreenX{16}
3 \def\tiscreenY{8}
4
5 % Second method (Only once)
6 \LCD{5}{11}
7 |ANOTHER |
8 |EXAMPLE |
9 |WITH A |
10 |DIFFERENT|
11 |SIZE |
```

4 Additional defined characters

Added characters

Name	Symbol	\LCD Code
E	\mathbb{E}	{sciE}
σ	\mathfrak{O}	{sigma}
Σ	\mathfrak{Z}	{Sigma}
x^2	\mathfrak{z}	{sq}
x^{-1}	$\mathfrak{-1}$	{ar}
x^3	$\mathfrak{3}$	{c3}
y^x	$\mathfrak{*}$	{cx}
x_1	$\mathfrak{1}$	{sub1}
x_2	$\mathfrak{2}$	{sub2}
x_3	$\mathfrak{3}$	{sub3}
x_4	$\mathfrak{4}$	{sub4}
x_5	$\mathfrak{5}$	{sub5}
x_6	$\mathfrak{6}$	{sub6}
x_{10}	$\mathfrak{10}$	{sub10}
\bar{x}	\mathfrak{X}	{barx}
\bar{y}	\mathfrak{Y}	{bary}
$-x$	$\mathfrak{-}$	{dash}
\rightarrow	$\mathfrak{\rightarrow}$	{sto}
θ	$\mathfrak{\Theta}$	{theta}
π	$\mathfrak{\pi}$	{pi}
η	$\mathfrak{\eta}$	{eta}
$+$	$\mathfrak{+}$	{tick}
$^\circ$	\mathfrak{o}	{degree}
	$\mathfrak{=}$	{square}
	$\mathfrak{\alpha}$	{alpha}
\uparrow	$\mathfrak{\uparrow}$	{2nd}
\geq	$\mathfrak{\geq}$	{geq}
\leq	$\mathfrak{\leq}$	{leq}
\neq	$\mathfrak{\neq}$	{neq}
x^3	$\mathfrak{3}$	{c3}
A^T	\mathfrak{T}	{transpose}
A^r	\mathfrak{r}	{upr}
χ	\mathfrak{X}	{chi}
\triangleright	$\mathfrak{\triangleright}$	{fwedge}
\triangleleft	$\mathfrak{\triangleleft}$	{bwedge}
\mathbf{N}	\mathbf{N}	{bbN}
$/$	$/$	{bb/}



Redefined characters

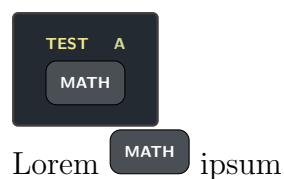
!	!	{!}
{	{	{lb}
}	}	{rb}
[[{l}
]]	{r}
\sqrt{x}	\sqrt{x}	{sqrt}
e	e	{e}
i	i	{i}
v	v	{v}
w	w	{w}
Ellipses	...	{ell}
Apostrophe	'	{'}
List	L	{L}
Underscore	_	{-}

Part II

Buttons

5 Usage


Use the `\tibtn` command only prints the button and is usefull when needing the buttons to be displayed inline. The `\tibtnextra` takes extra arguments to show extra options for the button (accessed by the  and  buttons).



	Source
1	<code>\tibtnextra{\tibtn[white]{tibtngray}{MATH}}{TEST}{A}</code>
2	
3	Lorem
4	<code>\tibtn[white]{tibtngray}{MATH}</code>
5	ipsum

6 Defined buttons

Defined buttons

Command	Output
<code>\tibtnmatrix</code>	
<code>\tibtnmatrixextra</code>	