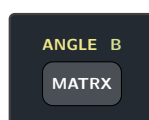
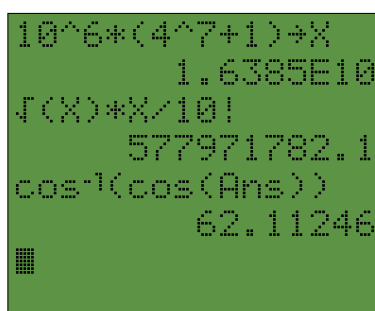


# TI calculator screen (and buttons)

TI-82 STATS

Mustafa Ibrahim

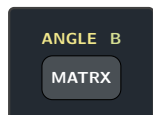
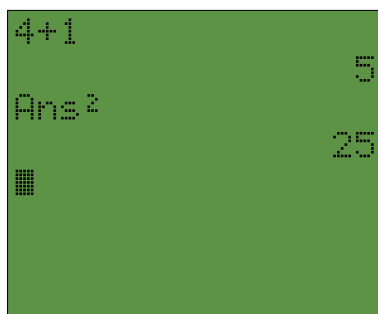
2021-09-18



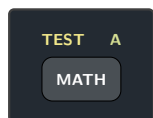
## Contents

1	Quickstart	2
2	Package option(s)	2
2.1	Color . . . . .	2
I	Screen	2
3	LCD size	2
4	Additional defined characters	3
II	Buttons	3
5	Usage	4
6	Defined buttons	4

# 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  $8 \times 16$  (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\tiscreeenX{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	Ǝ	{sciE}
$\sigma$	σ	{sigma}
$x^2$	²	{sq}
$x^{-1}$	⁻¹	{ar}
$y^x$	ˣ	{cx}
$x_1$	₁	{sub1}
$x_2$	₂	{sub2}
$x_3$	₃	{sub3}
$x_4$	₄	{sub4}
$x_5$	₅	{sub5}
$x_6$	₆	{sub6}
$\bar{x}$	̄	{barx}
$\bar{y}$	̄	{bary}



Redefined characters

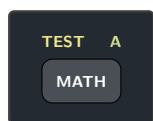
!	!	{!}
{	{	{lb}
}	}	{rb}
[	[	{rb}
]	]	{rb}
$\sqrt{x}$	√	{sqrt}
e	e	e
i	i	i
v	v	v
w	w	w

## 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 (accesed by the  and  buttons).




Lorem  ipsum

Source

```
1 \tibtnextra{\tibtn[white]{tibtngray}{MATH}}{TEST}{A}
2
3 Lorem
4 \tibtn[white]{tibtngray}{MATH}
5 ipsum
```

## 6 Defined buttons

Defined buttons

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