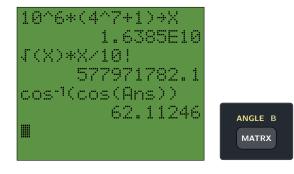
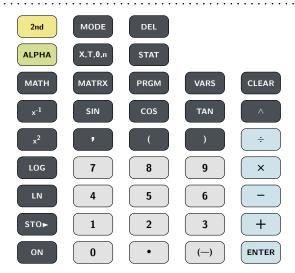
# TI calculator screen (and buttons)

TI-82 STATS, TI-84

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2022-06-29

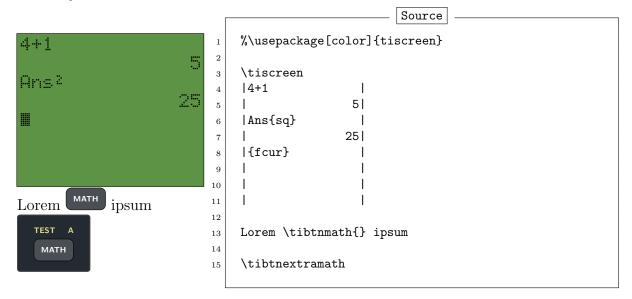




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# 1 Quickstart



# 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 \tiscreen. The colors are defined as tiscreenfg (foreground, i.e. font color) and tiscreenbg (background) and redefined like this:

```
% Add this to your preamble
definecolor{tiscreenbg}{HTML}{5d9345}
definecolor{tiscreenfg}{HTML}{FFFFFF}
```

#### 2.2 Defined colors

Name	Color	Usage
tiscreenfg	000000	LCD commands
tiscreenbg	5d9345	LCD commands
tibtngray	494F54	Buttons
tibtnyellow	F1E78B	Buttons
tibtngreen	D5DE93	Buttons
tibtnwhite	E2E2E2	Buttons
tibtnblue	CDE2E9	Buttons
tibtncaseblack	232A32	Buttons

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

# 4 (Re)defined characters

#### Added characters

Name	Symbol	\LCD Code
E		{sciE}
$\sigma$	ŗ	$\{\mathtt{sigma}\}$
$\sum$	<u> </u>	$\{ {\tt Sigma} \}$
$x^2$	2	{sq}
$x^{-1}$	-1	{ar}
$x^3$	3	{c3}
$y^x$	×	{cx}
$ x_1 $	1	$\{sub1\}$
$x_2$	2	$\{sub2\}$
$x_3$	3	{sub3}
$x_4$	<b>!</b> :	$\{sub4\}$
$x_5$	5	$\{sub5\}$
$x_6$		{sub6}
$x_{10}$		{sub10}
$\bar{x}$	×	{barx}
$\mid ar{y} \mid$		{bary}
-x		$\{\mathtt{dash}\}$

$\rightarrow$	<b>+</b>	{sto}
$\theta$	θ	$\{\mathtt{theta}\}$
$\pi$	Л	{pi}
$\mid \eta \mid$	77	$\{\mathtt{eta}\}$
+	+	{tick}
0	0	{degree}
		$\{ ext{square}\}$
		$\{ { t alpha} \}$
1		{2nd}
<u> </u>	=	{geq}
≥   ≤   ≠	=======================================	{leq}
<b>=</b>	<b>#</b>	${neq}$
$x^3$	3	{c3}
$A^T$	T	$\{transpose\}$
$A^r$	r"	{upr}
chi	X	$\{\mathtt{chi}\}$
$\triangleright$	<b> </b>	$\{ \texttt{fwedge} \}$
△	4	$\{\mathtt{bwedge}\}$
N	N	{bbN}
/	/	{bb/}

### Redefined characters

1	i	(1)
!		{!}
{	(	{1b}
}	)	{rb}
[		{[}
]	]	{]}
$\sqrt{x}$	.T	{sqrt}
e	<b></b>	{e}
i	i	{i}
v	V	{v}
w	W	{w}
Ellipses		$\{ exttt{ell}\}$
Apostrophe	:	{'}
List	<u> </u>	{L}
Underscore		{_}}

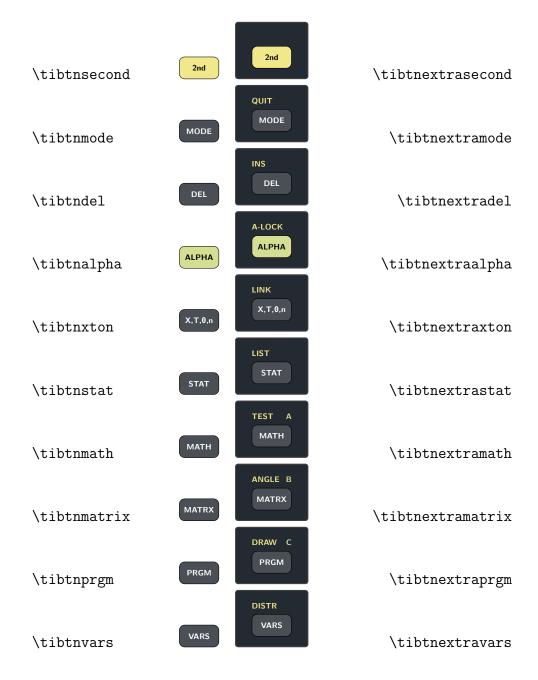
#### Part II

# **Buttons**

### 5 Usage

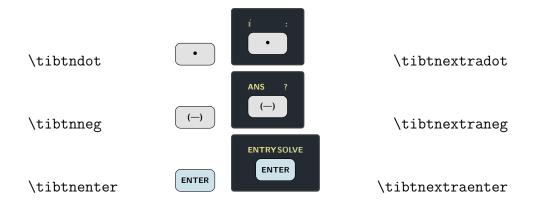
The \tibtn<...> commands only prints the button and are useful when displaying buttons inline. The \tibtnextra<...> commands shows the extra functionality of the button (accessed by the 2nd and Alpha buttons). See secion 6 for defined buttons and section 7 for how to define custom buttons.

### 6 Defined buttons









### 7 Custom buttons

Buttons are defined using the \tibtn and \tibtnextra. It's often convenient to define a \tibtn command then use it inside \tibtnextra (See example below). See section 2.2 for a list of defined colors.

\tibtn[<text color>]{<button color>}{<text>}

\tibtnextra{<middle>}{<top left>}{<top right>}



