

# Number Alteration Menu

This menu has the number alteration functions to apply to the displayed number. To show it, touch the **[MATH]** button in the main menu or touch **[Shift] [NUM]** in the keyboard.



<b>[ABS]</b>	Absolute value of the displayed number.
<b>[INTG]</b>	Integer part of the number.
<b>[FRAC]</b>	Fractional part of the number.
<b>[FLOOR]</b>	Smaller integer nearest to the number.
<b>[CEIL]</b>	Upper nearest Integer of the number.
<b>[RND]</b>	Rounds to current number of decimals setting.
<b>[TRUNC]</b>	Truncates to current number of decimals setting.
<b>[MOD]</b>	Remainder of the division of $Y / X$ .
<b>[IDIV]</b>	Integer of the division of $Y / X$ .
<b>[RAN#]</b>	Generates a uniform random number in range 0 to 1.
<b>[ <math>\pi</math> ]</b>	Enters the number “ $\pi$ ” (3.1415...) into the calculator.
<b>[ X! ]</b>	Factorial of a real number ( $\Gamma(x+1)$ ).

**Examples :** (assumes FIX display format with 4 decimals)

Calculation	Keystrokes	Result
Factorial of pi	<b>[ π ] [ X! ]</b>	<b>7.1881</b>
Absoute value of -3	3 [+ / -] <b>[ABS]</b>	<b>3.0000</b>
Integer part pi	<b>[ π ] [INTG]</b>	<b>3.0000</b>
Fractional part of pi	<b>[ π ] [FRAC]</b>	<b>0.1416</b>
Floor of pi	<b>[ π ] [FLOOR]</b>	<b>3.0000</b>
Floor of minus pi	<b>[ π ] [+ / -] [FLOOR]</b>	<b>-4.0000</b>
Ceiling of pi	<b>[ π ] [FLOOR]</b>	<b>4.0000</b>
Ceiling of minus pi	<b>[ π ] [+ / -] [FLOOR]</b>	<b>-3.0000</b>
Round pi	<b>[ π ]</b> [ Shift ] [ SHOW ] <b>[RND]</b> [ Shift ] [ SHOW ]	<b>3.1416</b> <b>3.14159265...</b> <b>3.1416</b> <b>+3.1416</b>
Truncate pi	<b>[ π ]</b> [ Shift ] [ SHOW ] <b>[TRUNC]</b> [ Shift ] [ SHOW ]	<b>3.1416</b> <b>3.14159265...</b> <b>3.1415</b> <b>+3.1415</b>
Remainder of 48 / 21	48 [INPUT] 21 <b>[MOD]</b>	<b>6.0000</b>
Remainder of 48 / 21	48 [INPUT] 21 <b>[IDIV]</b>	<b>2.0000</b>