

### Physical constants

Name	Symbol	PgUp sequence
alpha particle mass	$A_p$	A
angstrom star	$A^*$	*
atomic mass	$m_a$	a
Avogadro constant	$N_A$	N
Bohr magneton	$\mu_B$	b
Bohr radius	$a_0$	B
Boltzmann constant	$k_B$	K
impedance of vacuum	$Z_0$	w
electron radius	$r_e$	!
deuteron mass	$D_M$	Q
electron mass	$m_e$	e
electron volt	eV	v
elementary charge	e	q
Faraday constant	$F$	F
fine-structure constant	$\alpha$	f
Hartree energy	$E_h$	T
Josephson constant	$K$	l
lattice parameter Si	a	t
molar gas constant	R	R
nuclear magneton	$\mu_N$	(
Planck constant	h	h
proton mass	P	&
Rydberg constant	$R_\infty$	x
speed of light	c	c
acceleration of gravity	g	g
standard atmosphere	Atm	m
Stefan-Boltzmann constant	$\Sigma$	s
electric permittivity	$\epsilon$	n
magnetic permeability	$\mu$	X
von Klitzing constant	$R_k$	V

### Astronomical constants

Name	Symbol	PgUp sequence
Astronomical Unit	AU	U
parsec	pc	p
kiloparsec	Kpc	P
megaparsec	Mpc	M
lightyear	ly	Y
Modified Julian Day	mdj0	j
Julian Year	JulYr	J
Julian Century	JulCy	y
Epoch 2000-Jan-1.5TD	J2000.0	0
Besselian Epoch	B1950.0	%
Sidereal year	Syr	/
Tropical year	Tyr	[
Gregorian year	Gyr	]
acceleration of gravity	g	g
constant of gravitation	G	G
mass of sun	S	S
Gaussian gravitational constant	k	k
Equatorial radius for Earth	$R_e$	O
earth ellipticity	e	i
Geocentric gravitational constant	GE	D
earth mass / moon mass	1/ $\mu$	u
Precession in longitude	$\rho$	r
Precession in RA	m	Z
Precession in DEC	n	z
Obliquity of ecliptic	$\epsilon$	o
Sidereal rate	$\epsilon$	:
Constant of nutation	$N$	2
Constant of aberration	$\kappa$	1
Heliocentric gravitational constant	GS	L
sun mass / earth mass	S/E	E
sun mass / earth+moon mass	S/E+M	#
Hubble constant	$H_0$	H
Solar luminosity	$L_0$	W

## Button PgDown (PgDn) Sequences

Radiation			
Unit	Symbol	PgDwn seq	Type
candela	cd	@	Luminous Intensity
lumen	lm	W	Luminous Flux
lux	lx	l	Illuminance
becquerel	Bq	k	Radioactivity
gray	Gy	R	Absorbed ionising radiation
sievert	Sv	D	Equivalent absorbed radiation

Thermo			
Unit	Symbol	PgDwn seq	Type
mole	mol	*	Amount of substance
kelvin	°K	K	Temperature
celsius	°C	C	Temperature
fahrenheit	°F	F	Temperature
calorie	cal	q	Energy, Work, Heat
katal	kat	J	catalytic activity

Angle (angle)			
Unit	Symbol	PgDwn seq	Type
radian	rad	r	angle
degree	deg	o	angle
minute	min	'	angle
second	sec	"	angle
grad	grd	0	angle
Hour	H	H	angle
Hour-minute	Hmin	=	angle
Hour-second	Hsec	+	angle

Space			
Unit	Symbol	PgDwn seq	Type
metre	m	m	Length
inch	in	n	Length
foot	ft	f	Length
yard	yd	`	Length
mile	mi	8	Length
nautical mile	nmi	w	Length
angstrom	AA	-	Length
astronomic unit	AU	U	Length
parsec	pc	p	Length
lightyear	ly	Y	Length
are	are	9	Surface
litre	L	L	Volume
barrel	Bar	M	Volume
gallon	Gal	G	Volume
pint	Pin	P	Volume

Time			
Unit	Symbol	PgDwn seq	Type
second	s	s	time
minute	mn	u	time
hour	hr	h	time
day	dy	a	time
month	mth	e	time
year	yr	y	time
Julian year	Jyr	?	time
tropical year	Tyr	[	time
Gregorian year	Gyr	c	time
sidereal year	Syr	/	time
century	Cen	c	time
hertz	Hz	z	Frequency

Momentum			
Unit	Symbol	PgDwn seq	Type
knot	knot	.	Speed
mach	M	>	Speed
light speed	c	^	Speed
newton	N	N	Force,Weight
pascal	Pa	4	Pressure,Stress
bar	bar	6	Pressure,Stress
atm	atmosphere	~	Pressure,Stress
joule	J	j	Energy,Work,Heat
erg	erg	7	Energy,Work,Heat
electron volt	eV	v	Energy,Work,Heat
watt	W	t	Power,Radiant Flux
horse-power	hp	2	Power,Radiant Flux

ElectroMag			
Unit	Symbol	PgDwn seq	Type
ampere	A	A	Electric current
coulomb	C	5	Electric charge
volt	V	V	Electric Potential,Voltage,EMF
farad	F	d	Capacitance
ohm	$\Omega$	O	Resistance,Impedance,Reactance
siemens	S	3	Electrical conductance
weber	Wb	B	Magnetic Flux
tesla	T	1	Magnetic Flux Density
henry	H	b	Inductance

Mass (mass)			
Unit	Symbol	PgDwn seq	Type
gram	g	g	mass
ton	Tn	T	mass
SunMass	S	S	mass

## Command Keys

Function	Key
Sum X+Y	+
Difference Y-X	-
Product Y*X	*
Divide Y/X	/

Function	Key
CHS	—
ABS   -ABS	b
1/X	<
INT   FRAC	l
X-Y   LstX	←
RND	n
%   D%	%

Function	Key
QUAD   Atan2	Q
ToPolar   toRect	p
D:M:S   D.dddd	;
Sin   asin	s
Cos   acos	c
Tan   atan	t

Function	Key
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
0	0
-	-
.   :	.
E	E

Function	Key
Exp   Ln	x
10^X   Log	X
SQR   SQRT	q
Y^X   X^Y	^
SNH   ASNH	S
CSH   ACSH	C
TNH   ATNH	T
$\pi$   $\pi/2$	P
x!	!
Set Format	f
N Digits	0..9ABC
Fix	F
Sci	S
Prc	E

Function	Key
JulD   GregD	j
Kepler	k
EqH   Heq	\$
EEc   EcE	@
EGa   GaE	#
GST0	u

Function	Key
Inv'	\
Coalesce   Convert	Home
Clean   CleanAll	Insert
C   CE	Delete
Rdown	↓
Inv Rup	↑
Enter   Down	Enter
STO	m
RCL	r

\* Functions that accept "Inv" toggle with the signal "|".