

Umrechnung (converting) von Prozent (%) auf Grad (°) bei Steigungswinkel (elevation)

In *Windows - Calculator* following settings must be selected

- Ansicht (view) > wissenschaftlich (scientific)
- o Dec
- o Deg
- Inv

example: 20 % = 11.31 °

formula: $\text{Prozent}(\%) \div 100 = \text{Inv tan Grad}(\circ)$

calculation: $20 \div 100 = \text{Inv tan } 11.31$

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example: 20 ° = 36.4 %

formula: $\text{Grad}(\circ) \tan x 100 = \text{Prozent}(\%)$

calculation: $20 \tan x 100 = 36.4$

Gradient °	Prozent %
0,1	0,17453310..
0,25	0,4363350..
0,5	0,8726867790..
1	1.7455
5	8.75
10	17.63
15	26.79
18	32.49
20	36.40
24	44.52
25	46.63
28	53.17
30	57.74
35	70.02
40	83.91
50	119.17
90	∞
100	-567.13

Prozent %	Gradient °
0,1	0,057295760...
0,25	0,143239150...
0,5	0,286476510...
1	0.5729
5	2.86
10	5.71
15	8.53
18	10.20
20	11.31
24	13.50
25	14.04
28	15.64
30	16.70
35	19.29
40	21.80
50	26.56
90	41.99
100	45.00

km/h	1,6093	miles / hour	3,6	m/sec
1		0,621		0,278
5		3,107		1,389
10		6,214		2,778
15		9,321		4,167
20		12,427		5,556
22		13,670		6,111
25		15,534		6,944
30		18,641		8,333
35		21,748		9,722
36		22,369		10,000
40		24,855		11,111
44		27,340		12,222
45		27,962		12,500
50		31,069		13,889
60		37,282		16,667
80		49,710		22,222
100		62,137		27,778

miles / hour		km/h	m/sec
1		1,609	0,447
5		8,047	2,235
10		16,093	4,470
15		24,140	6,706
20		32,187	8,941
22		35,405	9,835
25		40,234	11,176
30		48,280	13,411
25		40,234	11,176
36		57,936	16,093
40		64,374	17,882
44		70,811	19,670
45		72,420	20,117
50		80,467	22,352
60		96,560	26,822
80		128,747	35,763
100		160,934	44,704

cm	2,54	inches	30,48	feet
1		0,394		0,033
5		1,969		0,164
10		3,937		0,328
15		5,906		0,492
20		7,874		0,656
22		8,661		0,722
25		9,843		0,820
30		11,811		0,984
35		13,780		1,148
40		15,748		1,312
45		17,717		1,476
50		19,685		1,640
55		21,654		1,804
60		23,622		1,969
63		24,803		2,067
65		25,591		2,133
70		27,559		2,297
75		29,528		2,461
80		31,496		2,625
85		33,465		2,789
90		35,433		2,953
95		37,402		3,117
100		39,370		3,281
125		49,213		4,101
150		59,055		4,921
170		66,929		5,577
175		68,898		5,741
190		74,803		6,234
200		78,740		6,562
225		88,583		7,382
250		98,425		8,202
275		108,268		9,022
300		118,110		9,843

inches		feet	cm
1		0,033	2,540
5		0,164	12,700
10		0,328	25,400
15		0,492	38,100
20		0,656	50,800
22		0,722	55,880
25		0,820	63,500
30		0,984	76,200
35		1,148	88,900
40		1,312	101,600
45		1,476	114,300
50		1,640	127,000
55		1,804	139,700
60		1,969	152,400
63		2,067	160,020
65		2,133	165,100
70		2,297	177,800
75		2,461	190,500
80		2,625	203,200
85		2,789	215,900
90		2,953	228,600
95		3,117	241,300
100		3,281	254,000
125		4,101	317,500
150		4,921	381,000
170		5,577	431,800
175		5,741	444,500
190		6,234	482,600
200		6,562	508,000
225		7,382	571,500
250		8,202	635,000
275		9,022	698,500
300		9,843	762,000

kw	1,36	PS/HP	in Modell	PS/HP	0,735	kw
0,5		0,680				0,3675
0,75		1,020				0,55125
1,0		1,360				0,735
1,5		2,040				1,1025
2,0		2,720				1,47
2,2		2,992				1,617
3,0		4,080				2,205
3,3		4,488	mercury 5.0			2,4255
4,0		5,440				2,94
5,5		7,480				4,0425
7,5		10,200				5,5125
10,0		13,600				7,35
11,0		14,960				8,085

kg	0,452	pound lbs	2,21	pound lbs	kg
1		2,212		1	0,452
5		11,062		5	2,260
10		22,124		10	4,520
25		55,310		25	11,300
50		110,619		50	22,600
75		165,929		75	33,900
100		221,239		100	45,200
170		376,106		170	76,840
180		398,230		180	81,360
190		420,354		190	85,880
200		442,478		200	90,400
210		464,602		210	94,920
250		553,097		250	113,000
300		663,717		300	135,600
350		774,336		350	158,200
360		796,460		351	158,652
370		818,584		370	167,240
380		840,708		380	171,760
400		884,956		400	180,800
440		973,451		440	198,880
450		995,575		450	203,400
500		1106,195		500	226,000
750		1659,292		750	339,000
800		1769,912		800	361,600
900		1991,150		900	406,800
1000		2212,389		1000	452,000
1100		2433,628		1100	497,200
1200		2654,867		1200	542,400
1250		2765,487		1250	565,000
1300		2876,106		1300	587,600
1400		3097,345		1400	632,800
1500		3318,584		1500	678,000
1700		3761,062		1700	768,400
1750		3871,681		1750	791,000
1800		3982,301		1800	813,600
1900		4203,540		1900	858,800
2000		4424,779		2000	904,000

Masse und Gewichte:

1 inch (in.) "	=	2.54 cm
1 foot (ft.)	=	30.48cm
	=	12 inches
1 yard (yd.)	=	91.44 cm
	=	3 feet
1 mile (statute) (mi.)	=	1609.34 m
1 cubic inch (cu. in.)	=	16.387 ccm
1 cubic foot (cu. ft.)	=	0.028 cbm
	=	1728 cubic inches
1 cubic yard (cu. yd.)	=	0.765 cbm
	=	27 cubic feet
1 register ton (reg. tn.)	=	2.832 cbm
	=	100 cubic feet
1 square inch (sq. in.)	=	6.45 qcm (cm ²)
1 square foot (sq. ft.)	=	929.03 qcm (cm ²)
	=	144 square inches
1 square yard (sq. yd.)	=	0.836 qm (m ²)
	=	9 square feet
1 British Imp. pint	=	0.568 l (Liter)
1 British Imp. gallon	=	4.546 l (Liter)

1 pound (lb. av.)	=	0.452 kg
1 ton (tn., t.)	=	1016 kg
	=	2240 pounds
		US: 2000 pounds = 907.18 kg
1 Newton (N)	=	0.10197162 kgf
1 Kilo Newton (kN)	=	101.97162 kgf

1 kg	=	2.21 pound (lb. av.)
1 kilogram-force (kgf)	=	9.80665 Newton (N)
1000 kgf	=	9806.6500 Newton (N)

1 HP (horse power)	=	0.735 kW (Kilowatt)
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1 kW (Kilowatt)	=	1.36 HP oder PS
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Elektrische Leistung

P: Leistung in Watt

U: Spannung in Volt

I: Strom in Ampere

elektrische Leistung in Watt =
Spannung in Volt x Stromstärke in Ampere

$$P = U \cdot I$$

$$U = \frac{P}{I}$$

$$I = \frac{P}{U}$$