

Satz des Pythagoras – Übungen

Hypotenuse	Kathete 1	Kathete 2	passende Formel	Ergebnis
h	15 cm	20 cm	$h = \sqrt{k_1^2 + k_2^2}; \quad h = \sqrt{15^2 + 20^2}$	h = 25 cm
h	36 mm	48 mm		
h	5 cm	12 cm		
h	16 cm	30 cm		
h	10 cm	12 cm		
h	20 cm	21 cm		
h	15 cm	19 cm		
h	31 cm	35 cm		
h	65 mm	72 mm		
h	120 m	160 m		
h	3 cm	40 mm		

Kathete 1	Hypotenuse	Kathete 2	passende Formel	Ergebnis
k_1	30 cm	24 cm	$k_1 = \sqrt{h^2 - k_2^2}; \quad k_1 = \sqrt{30^2 - 24^2}$	$k_1 = 18$ cm
k_1	13 cm	12 cm		
k_1	17 cm	8 cm		
k_1	20 cm	12 cm		
k_1	34 cm	29 cm		
k_1	16 m	4 m		
k_1	29 cm	21 cm		
k_1	101 mm	99 mm		
k_1	35 cm	28 cm		
k_1	65 mm	34 mm		
k_1	12 m	80 dm		

Hypotenuse	Kathete 1	Kathete 2	passende Formel	Ergebnis
h	45 cm	20 cm		
105 cm	36 cm	k_2		
56 cm	k_1	455 mm		
h	48 mm	5,5 cm		
80 cm	12 cm	k_2		
384 mm	k_1	27,3 cm		
h	0,045 m	34 mm		
85	84	k_2		
h	24	25		
290	k_1	48		

Satz des Pythagoras – Lösungen

Hypotenuse	Kathete 1	Kathete 2	passende Formel	Ergebnis
h	15 cm	20 cm	$h = \sqrt{k_1^2 + k_2^2}$; $h = \sqrt{15^2 + 20^2}$	h = 25 cm
h	36 mm	48 mm	$h = \sqrt{k_1^2 + k_2^2}$; $h = \sqrt{36^2 + 48^2}$	h = 60 cm
h	5 cm	12 cm	$h = \sqrt{k_1^2 + k_2^2}$; $h = \sqrt{5^2 + 12^2}$	h = 13 cm
h	16 cm	30 cm	$h = \sqrt{k_1^2 + k_2^2}$; $h = \sqrt{16^2 + 30^2}$	h = 34 cm
h	10 cm	12 cm	$h = \sqrt{k_1^2 + k_2^2}$; $h = \sqrt{10^2 + 12^2}$	h = 15,6 cm
h	20 cm	21 cm	$h = \sqrt{k_1^2 + k_2^2}$; $h = \sqrt{21^2 + 21^2}$	h = 29 cm
h	15 cm	19 cm	$h = \sqrt{k_1^2 + k_2^2}$; $h = \sqrt{15^2 + 19^2}$	h = 24,2 cm
h	31 cm	35 cm	$h = \sqrt{k_1^2 + k_2^2}$; $h = \sqrt{31^2 + 35^2}$	h = 46,8 cm
h	65 mm	72 mm	$h = \sqrt{k_1^2 + k_2^2}$; $h = \sqrt{65^2 + 72^2}$	h = 97 cm
h	120 m	160 m	$h = \sqrt{k_1^2 + k_2^2}$; $h = \sqrt{120^2 + 160^2}$	h = 200 m
h	3 cm	40 mm	$h = \sqrt{k_1^2 + k_2^2}$; $h = \sqrt{3^2 + 4^2}$	h = 5 cm

Kathete 1	Hypotenuse	Kathete 2	passende Formel	Ergebnis
k_1	30 cm	24 cm	$k_1 = \sqrt{h^2 - k_2^2}$; $k_1 = \sqrt{30^2 - 24^2}$	$k_1 = 18$ cm
k_1	13 cm	12 cm	$k_1 = \sqrt{h^2 - k_2^2}$; $k_1 = \sqrt{13^2 - 12^2}$	$k_1 = 5$ cm
k_1	17 cm	8 cm	$k_1 = \sqrt{h^2 - k_2^2}$; $k_1 = \sqrt{17^2 - 8^2}$	$k_1 = 15$ cm
k_1	20 cm	12 cm	$k_1 = \sqrt{h^2 - k_2^2}$; $k_1 = \sqrt{20^2 - 12^2}$	$k_1 = 16$ cm
k_1	34 cm	29 cm	$k_1 = \sqrt{h^2 - k_2^2}$; $k_1 = \sqrt{34^2 - 29^2}$	$k_1 = 17,7$ cm
k_1	16 m	4 m	$k_1 = \sqrt{h^2 - k_2^2}$; $k_1 = \sqrt{16^2 - 4^2}$	$k_1 = 15,5$ cm
k_1	29 cm	21 cm	$k_1 = \sqrt{h^2 - k_2^2}$; $k_1 = \sqrt{29^2 - 21^2}$	$k_1 = 20$ cm
k_1	101 mm	99 mm	$k_1 = \sqrt{h^2 - k_2^2}$; $k_1 = \sqrt{101^2 - 99^2}$	$k_1 = 20$ cm
k_1	35 cm	28 cm	$k_1 = \sqrt{h^2 - k_2^2}$; $k_1 = \sqrt{35^2 - 28^2}$	$k_1 = 21$ cm
k_1	65 mm	34 mm	$k_1 = \sqrt{h^2 - k_2^2}$; $k_1 = \sqrt{65^2 - 34^2}$	$k_1 = 55,4$ cm
k_1	12 m	80 dm	$k_1 = \sqrt{h^2 - k_2^2}$; $k_1 = \sqrt{12^2 - 8^2}$	$k_1 = 8,9$ cm

Hypotenuse	Kathete 1	Kathete 2	passende Formel	Ergebnis
h	45 cm	20 cm	$h = \sqrt{k_1^2 + k_2^2}$; $h = \sqrt{45^2 + 20^2}$	h = 49,2 cm
105 cm	36 cm	k_2	$k_2 = \sqrt{h^2 - k_1^2}$; $k_2 = \sqrt{105^2 - 36^2}$	$k_2 = 98,6$ cm
56 cm	k_1	455 mm	$k_1 = \sqrt{h^2 - k_2^2}$; $k_1 = \sqrt{56^2 - 45,5^2}$	$k_1 = 32,6$ cm
h	48 mm	5,5 cm	$h = \sqrt{k_1^2 + k_2^2}$; $h = \sqrt{4,8^2 + 5,5^2}$	h = 7,3 cm
80 cm	12 cm	k_2	$k_2 = \sqrt{h^2 - k_1^2}$; $k_2 = \sqrt{80^2 - 12^2}$	$k_2 = 79,1$ cm
384 mm	k_1	27,3 cm	$k_1 = \sqrt{h^2 - k_2^2}$; $k_1 = \sqrt{38,4^2 - 27,3^2}$	$k_1 = 38,0$ cm
h	0,045 m	34 mm	$h = \sqrt{k_1^2 + k_2^2}$; $h = \sqrt{45^2 + 34^2}$	h = 56,4 cm
85	84	k_2	$k_2 = \sqrt{h^2 - k_1^2}$; $k_2 = \sqrt{85^2 - 84^2}$	$k_2 = 13$ cm
h	24	25	$h = \sqrt{k_1^2 + k_2^2}$; $h = \sqrt{24^2 + 25^2}$	h = 34,7 cm
290	k_1	48	$k_1 = \sqrt{h^2 - k_2^2}$; $k_1 = \sqrt{290^2 - 48^2}$	$k_1 = 286$ cm