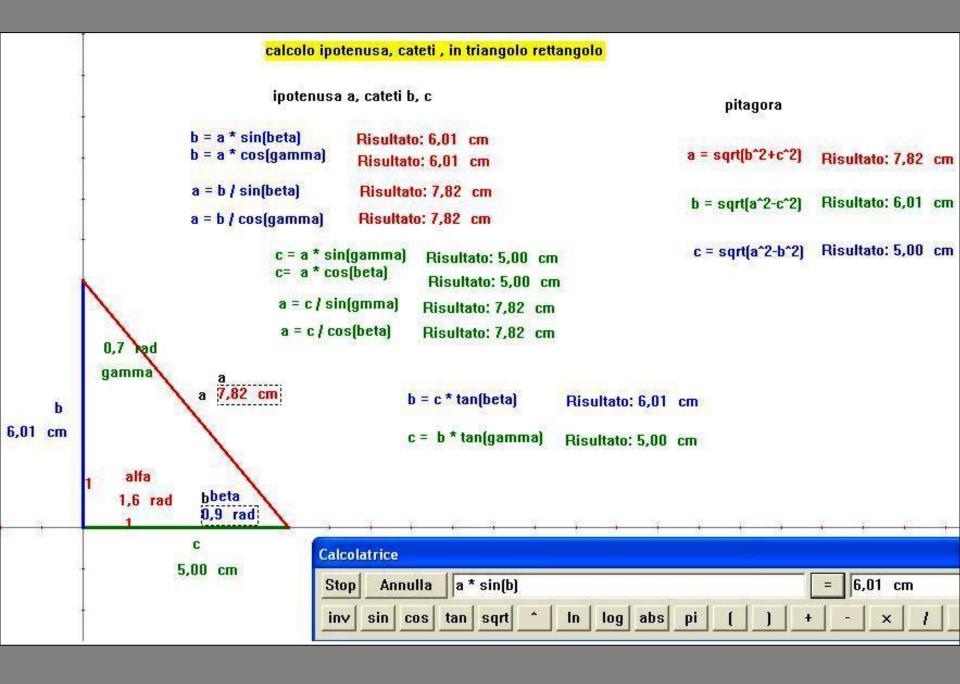
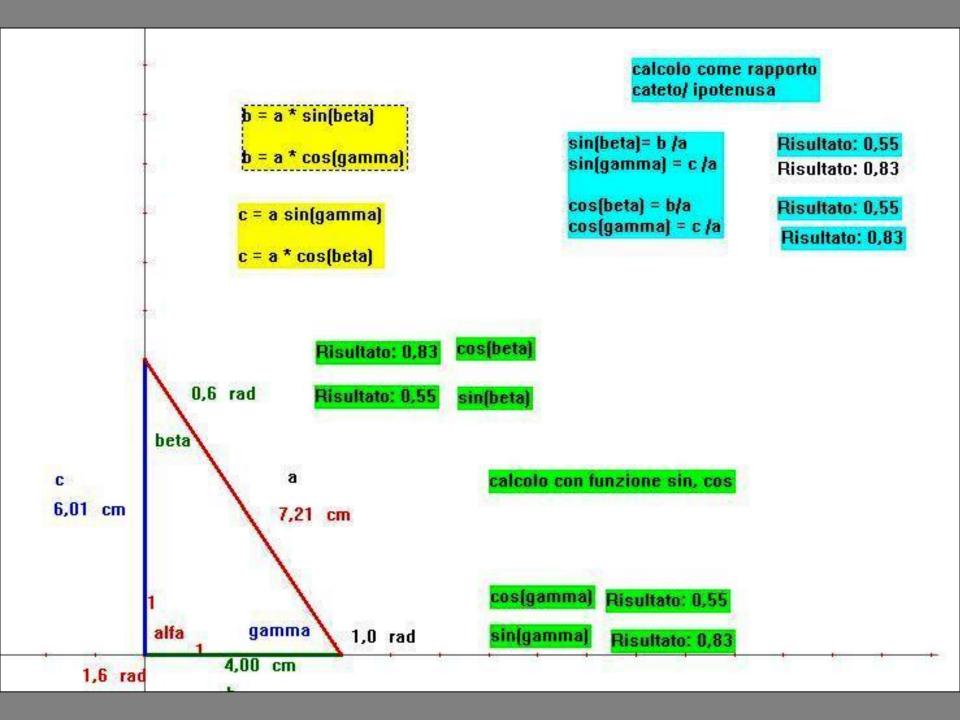
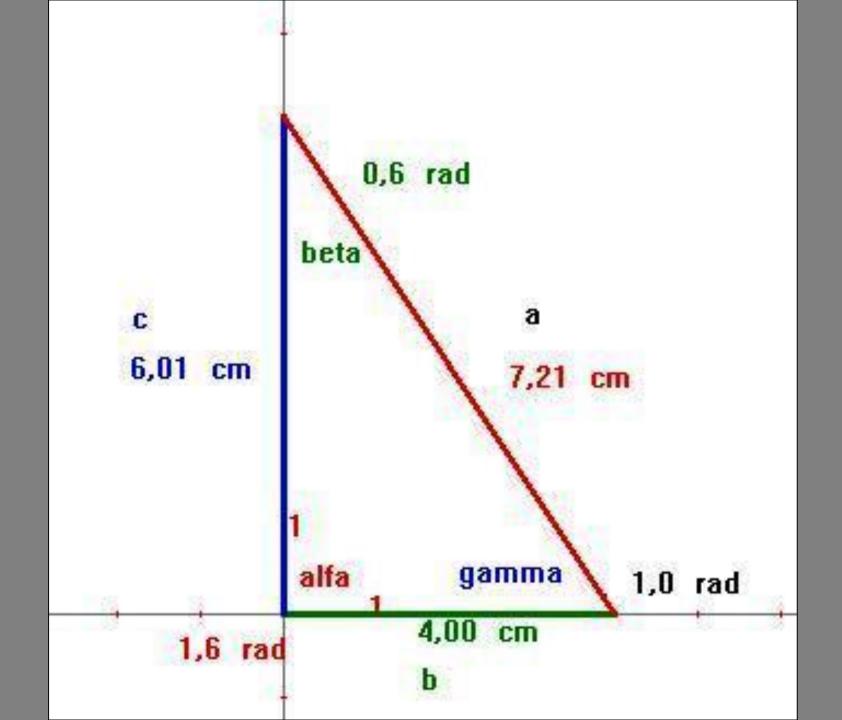
## Formule per soluzione trigonometrica triangoli rettangoli

Con geogebra, derive, cabri, excel

Vista Algebra 🗵	~ V	ista Foglio	di calcolo		$\otimes$	▼ Protocollo di costruzione				
Angolo	fx	G C		<b>□</b> ▼   E	•		-   -	Z & 0		
α = 90° β = 29.97°		А	В	С		N.	Nome	Definizione	Valore	
· • y = 60.03°	1	'b/a	0.5	0.5	^	33	Numero B8		B8 = 6	
Numero - O d = 0.87	2	'b/a	0.5	0.5		34	Testo A9		"'a"	
·O e = 0.5	3	- CO. C.		Sale		0.4	1000000			
· O f = 0.5	4	'c/a	0.87	0.87		35	Numero B9		B9 = 6.93	
· ○ g = 0.87 · ○ h = 0.87	5	'c/a	0.87	0.87				07100		
Punto	6					36	Numero B1	B7/B9	B1 = 0.5	
A = (0, 0)	7	'b	3.46			37	Numero B2	B7 / B9	B2 = 0.5	
B = (0, 6) C = (3.46, 0)	8	'c	6			960500	5/10/20/20/20/20/20/20/20/20/20/20/20/20/20	5-75 m 3058-5 C 54-764		
Segmento	9	'a	6.93			38	Numero B4	B8/B9	B4 = 0.87	
a = 6.93 b = 3.46	10					20	Numero B5	B8/B9	B5 = 0.87	
- O c = 6	11	'beta	30°			Janumero BS	INGINETO DO	00709	B3 = 0.07	
	12	'gamma	60°			40	Testo A11		"'beta"	
	13									
	14					41	Testo A12		"'gamma"	
	15					42	42 Angolo B11		B11 = 30°	
	16									
	17					43	Angolo B12		B12 = 60°	
	18					44	44 Numero C2	eec/P12\	C2 = 0.5	
	19					44	Numero C2	cos(B12)	C2=0.5	
	20					45	Numero C1	sin(B11)	C1 = 0.5	
	21						100	100 000000		
	22					46	Numero C4	sin(B12)	C4 = 0.87	
	23				~	47	Numero C5	cos(B11)	C5 = 0.87	
	24	(and (time)	t s	-		9572		2276.0		







```
Algebra dtriangolo1a.mth
                                                                     _ [
#1:
     "triangolo rettangolo: formule per calcolare vari elementi"
    "cateti b,c ,ipotenusa a ; angoli β, γ, α , radianti ( o gradi)"
#2:
#3:
    "b = a* sin(\beta); a * cos(\gamma)"
#4: "c = a * sin(\gamma); a * cos(\beta)"
#5:
    "a = b / sin(\beta) : b / cos(\gamma) "
#6:
    "a = c / \sin(\gamma); c / \cos(\beta)"
#7: "b = c * tan(\beta)"
    "c = b * tan(\gamma)"
#8:
#9:
#10: a := 7.21
#11: b := 4
#12: c := 6
#13: В := 0.6
#14: \gamma := 1
#15: ".....
#16: "b = a* sin(\beta); a * cos(\gamma)"
#17: b := a SIN(0.6)
#18: 4.0
#19: b := a · COS(1)
#20: 3.9
#21: ".....
```

## Algebra dtriangolo1a.mth #21: "..... #22: "c = a \* sin( $\gamma$ ); a \* cos( $\beta$ )" #23: c := a·SIN(1) #24: 6.0 #25: c := a · COS(0.6) #26: 5.9 #27: ". #28: "a = b / $sin(\beta)$ : b / $cos(\gamma)$ " #29: "a = c / $sin(\gamma)$ ; c / $cos(\beta)$ " #30: a := SIN(0.6) #31: 7.1 4 #32: a := COS(1) #33: 7.3 6 #34: a := SIN(1) #35: 7.1 6 #36: a := COS(0.6) #37: 7.3

#38: ".....



#37: 7.3

#38: ".....

#39: "b = c \*  $tan(\beta)$ "

#40: "c = b \*  $tan(\gamma)$  "

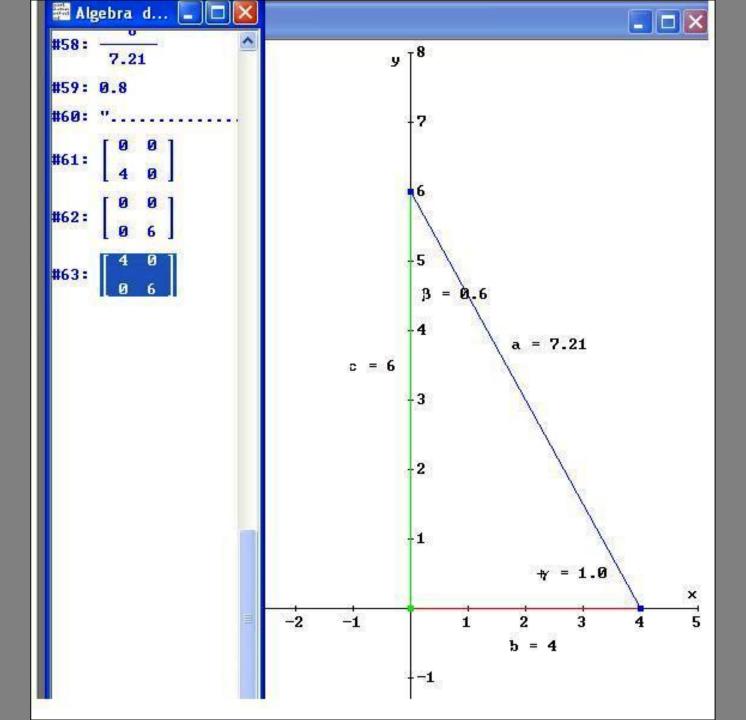
#41:  $b := 6 \cdot TAN(0.6)$ 

#42: 4.1

#43: c := 4 TAN(1)

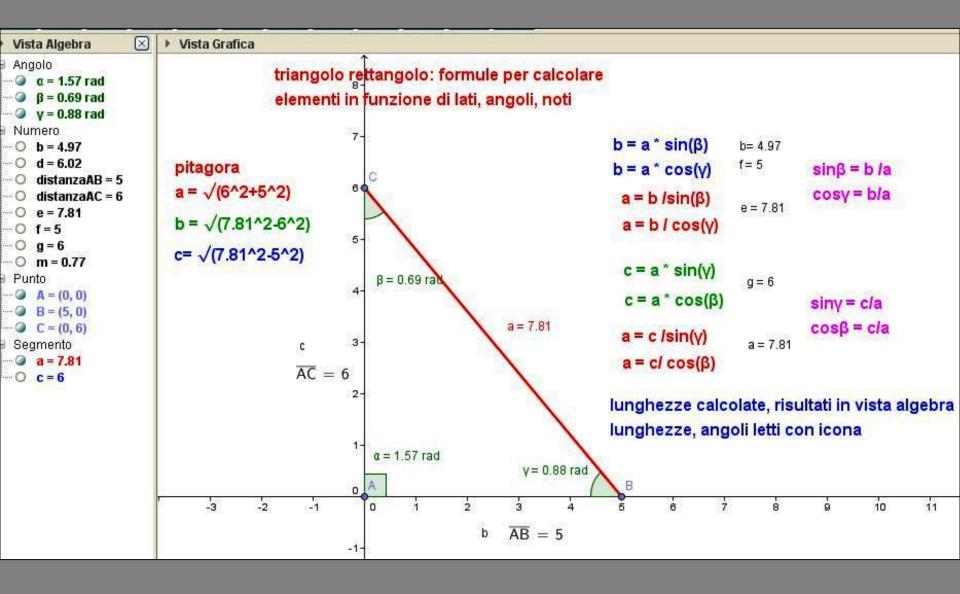
#44: 5.2

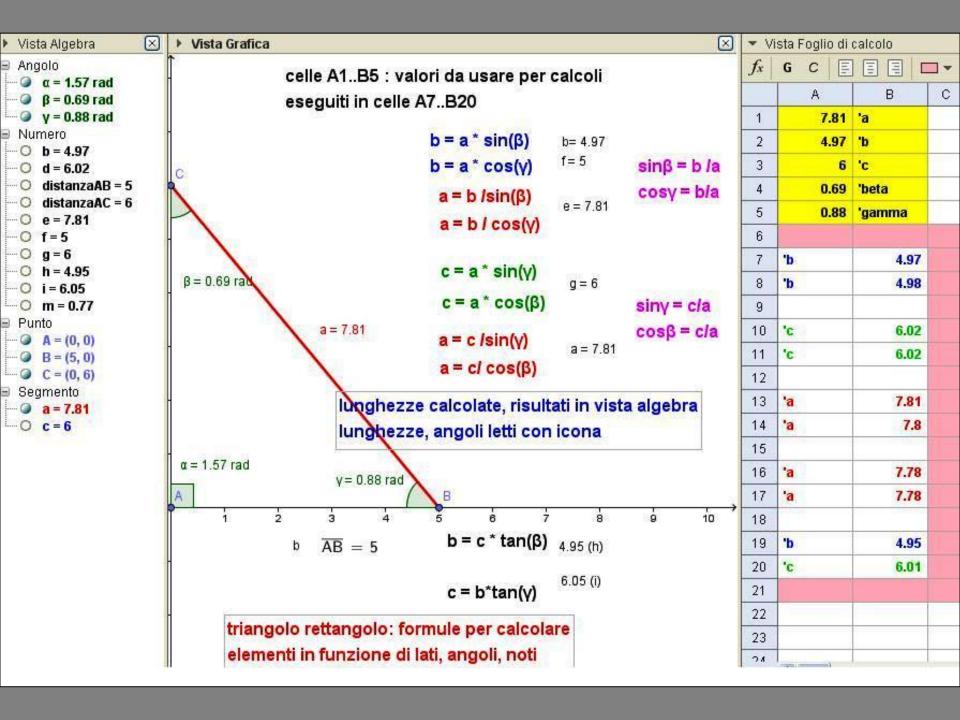
```
Algebra dtriangolo1a.mth
#45: ".....
#46: "b = a* sin(\beta); a * cos(\gamma)"
#47: "c = a * sin(\gamma); a * cos(\beta)"
#48: "sin(β)= b / a"
       4
#49: -
   7.21
#50: 0.5
#51: "cos(gamma)= b /a"
#52: —
   7.21
#53: 0.5
#54: "sin(γ) = c /a"
#55: ____
  7.21
#56: 0.8
#57: "cos(β)=c /a"
       6
#58: -
   7.21
#59: 0.8
#60: ".....
```



	А	В	С	D	E	F	G	Н		J
1	a	6,91			b = a * sen(beta)	3,455	3,445	= A		
2	b	4	,		b = a * cos(gamma)	3,455	30000			
3	с	6								
4	beta	30	0,52		c:= a*sen(gamma)	5,98423554				
5	gamma	60	1,05		c = a*cos(beta)	5,98423554				
6								_		
7	valori d	a usare ne	i calcoli		a = b / sen(beta)	6,91				
8					a = b / cos(gamma)	6,91				
9								beta		
10					a = c / sen(gamma)	6,91			а	
11					a = c / cos(beta)	6,91		С		
12										
13					b=c*tan(beta)	3,455				
14					c=b*tan(gamma)	5,98423554			gamma	
15									b	
16					sen(beta) = b/a	0,5		,	T	
17					cos(gamma = b/a	0,5				
18										
19					sen(gamma)= c/a	0,866025404		sen(gamma)	0,866025404	
20					cos(beta) = c/a	0,866025404		cos(beta)	0,866025404	
21										

				1 4 2		<del></del>			700 70	
	Α	В	С	D	Е	F	G	Н		
1	a	=6,91	9	2	b = a * sen(beta)	=B1*SEN(C4)				
2	b	4	3,445 = 4	5	b = a * cos(gamma)	=B1*COS(C5)				
3	С	6	8	5						
28 1	beta	30	=RADIANTI(B4)		c:= a*sen(gamma)	=B1*SEN(C5)	10			
			26 (8)		- 10.750 AD	6050 EK				
	gamma	60	=RADIANTI(B5)		c = a*cos(beta)	=B1*COS(C4)				
6										
7	valori	da usare n	ei calcoli		a = b / sen(beta)	=F1/SEN(C4)				
8	0	T			a = b / cos(gamma)	=F1/C0S(C5)				
9					(17)	8.12 - 13				
10					a = c / sen(gamma)	=F4/SEN(C5)				
11					a = c / cos(beta)	=F4/COS(C4)				
12					1	J				
13					b=c*tan(beta)	=F4*TAN(C4)				
14					c=b*tan(gamma)	=F1*TAN(C5)				
15										
16					sen(beta) = b/a	=F1/B1				
17					cos(gamma = b/a	=F1/B1				
18					A CONTRACTOR OF THE PROPERTY O				V	
19					sen(gamma)= c /a	=F4/B1		sen(gamma)	=SEN(C5)	
20					cos(beta) = c/a	=F4/B1		cos(beta)	=COS(C4)	
21								W Gla	00.00	





400												
	А	В	С	D		N.	Nome	Definizione	Valore			
1	7.81	'a			^	54	Testo AT4		а			
2	4.97	ъ				55	Numero B7	A1 sin(A4)	B7 = 4.97			
3	6	'c					e Angrico de Maria					
4	0.69	'beta				56	Numero B8	A1 cos(A5)	B8 = 4.98			
5	0.88	'gamma				57	Numero B10	A1 sin(A5)	B10 = 6.02			
6								120 - 120				
7	'b	4.97				58	Numero B11	A1 cos(A4)	B11 = 6.02			
8	'b	4.98				50	Numero B13	0.2 / nin (0.4)	D42 - 7.04			
9					Ţ	28	Numero B13	A2 / sin(A4)	B13 = 7.81			
10	'c	6.02				60	Numero B14	A2 / cos(A5)	B14 = 7.8			
11	'c	6.02							11100000			
12						61	Testo A16		"'a"			
13	'a	7.81				62	Testo A17	-	"a"			
14	'a	7.8				102	103107711		17. <del>19</del> 7			
15						63	Numero B16	A3 / sin(A5)	B16 = 7.78			
16	'a	7.78						35 20				
17	'a	7.78				64	Numero B17	A3 / cos(A4)	B17 = 7.78			
18	10					65	Testo A19		"'b"			
19	'b	4.95				"	TOSIO ATS					
20	'c	6.01				66	Testo A20		"'c"			
21						X232	V =22	607 2670	212 022			
22						67	Numero B19	A3 tan(A4)	B19 = 4.95			
23					-	68	Numero B20	A2 tan(A5)	B20 = 6.01			
24	<		10	3	>	9	- W. L					

