Espressioni goniometriche risolubili con la calcolatrice PASSED

risolvere con la calcolatrice le seguenti espressioni goniometriche

1	$cos\,31° \cdot sin\,31°$	0,44
2	$sin\,50° + cos^2 100°$	0,8
3	$cos\,57°(1 + sin\,47°)$	0,94
4	$sin\,29° \cdot sin\,16°45'$	0,14
5	$sin^2 47°30' - cos\,50°$	−0,1
6	$cos^3 37° - sin^2 51°15'$	−0,1
7	$\left(sin\,40° + \frac{1}{2} sin\,80°\right) \cdot (1 - cos\,40°)$	0,27
8	$tan\,66°(cos^2 33° - sin^2 33°)$	0,91
9	$\left(cos\,130° + \frac{1}{2} cos\,100°\right) \cdot tan 75°$	−2,72
10	$sin\,30° \cdot (sin\,30° - sin\,140° - \sqrt{3} sin\,55°\,cos\,55°) \cdot (1 + cos\,11°)$	−0,94
11	$\tan 101°15'(sin\,40° + cos\,51°30')$	−6,36
12	$\frac{cos^2 38° - cos^2 44°}{cos\,41° \cdot cos\,3°}$	0,14
13	$\frac{tan\,121°}{sin\,59°30'}$	−1,93

14	$\dfrac{sin\,19° - cos\,38°}{1 - sin^2 76°}$	−7,9
15	$\left(\dfrac{sin\,98°}{1 + cos\,98°}\right) \cdot cos\,49° \cdot sin^2 38° + sin 49° \cdot cos^2 38°$	0,75
16	$\dfrac{tan\,120°}{tan\,40°} \cdot (1 + \sqrt{3}\,tan\,40°) \cdot (sin^2 40° - \sqrt{3}\,tan\,40° + cos^2 40°)$	2,42
17	$tan\,186° \cdot (1 + tan\,93°) \cdot \left(\dfrac{sin\,186° + cos\,186° - 1}{sin\,186°}\right)$	−38,16
18	$tan^2 50° + sin^2 25° \cdot \left(sin^2 25° + \dfrac{1}{2} sin\,50°\,cot\,50° + cos^2 25°\right)$	1,66
19	$sin(17°30') + sin(36°30') + \dfrac{1}{2}(1 + cos\,19° + 2\,sin^2 27°)$	2,07
20	$\dfrac{1 + cos\,174° - 2\,sin\,87° + 2\,sin^2 87°}{cos\,87° \cdot (1 - sin\,87°)}$	38,21

calcolare con l'aiuto della calcolatrice il valore delle seguenti espressioni e, senza calcolatrice, esprimi i risultati in gradi decimali, gradi sessagesimali con primi e gradi radianti

	Espressioni	*Gradi decimali*	*Gradi con primi*	*Gradi radianti*
21	$arcsin\,0.52$	$\approx 31.33°$	$\approx 31° 20'$	≈ 0.547
22	$arctan\,1.28 + arccos\,0.65$	$\approx 101.46°$	$\approx 101° 28'$	≈ 1.771
23	$\frac{3}{4} arccos\,0.5 + arccos\frac{\sqrt{3}}{2}$	$75°$	$75° 00'$	$\frac{5\pi}{12}$
24	$4\,arcsin\,0.85 + arccos\,0.2$	$\approx 311.31°$	$\approx 311° 19'$	≈ 5.433
25	$arcsin\,0.99 - arcsin\,0.9$	$\approx 17.73°$	$\approx 17° 44'$	≈ 0.309
26	$arccos\,0.02 - arctan\,0.02$	$\approx 87.71°$	$\approx 87° 42'$	≈ 1.531

27	$arctan\,19.32 + \frac{5}{7} arcsin\,0.73$	$\approx 120.53°$	$\approx 120° 32'$	≈ 2.104
28	$arcsin(7.25 - 4\,arctan\,121)$	$\approx 89.08°$	$\approx 89° 05'$	≈ 1.555
29	$arccos\,0.81 + 2\,arcsin\,0.36$	$\approx 78.10°$	$\approx 78° 06'$	≈ 1.363
30	$\pi + arcsin(\pi - \sqrt{5})$	$\approx 244.89°$	$\approx 244° 54'$	≈ 4.274
31	$arccos(1 - 0.26)^2 - arccos\,(1 - 0.26^2)$	$\approx 35.61°$	$\approx 35° 37'$	≈ 0.622
32	$arctan\,5.71 + arctan\,(-5.71)$	$0°$	$0° 00'$	0
33	$arctan\,5.71 - arctan\,(-5.71)$	$\approx 160.13°$	$\approx 160° 08'$	≈ 2.795
34	$arctan\,1 + arcsin\,2$	*nessuna soluzione (come mai?)*		
35	$\frac{5\,arctan\,8.52 - 4\,arcsin\,0.67}{7}$	$\approx 35.47°$	$\approx 35° 28'$	≈ 0.619
36	$arctan^2\,2.94 + \frac{1}{2} arccos^2\,0.47$	$\approx 122.02°$	$\approx 122° 01'$	≈ 2.130
37	$arcsin^2\,0.79 - arcsin(0.79^2)$	$\approx 8.91°$	$\approx 8° 55'$	≈ 0.156
38	$arccos\left(\frac{1+\sqrt{3}}{2\sqrt{2}}\right) + arctan(2 - \sqrt{3})$	$30°$	$30° 00'$	$\frac{\pi}{6}$
39	$arcsin\frac{1+\sqrt{5}}{\sqrt{2}+\sqrt{3}}$	*nessuna soluzione (come mai?)*		
40	$arcsin\left(\frac{2\,arcsin\,0.17}{\pi}\right)$	$\approx 6.24°$	$\approx 6° 15'$	≈ 0.109

41	$arctan\,13.64 - arctan(arctan\,13.64)$	$\approx 29.54°$	$\approx 29° 32'$	≈ 0.516
42	$arctan\left[5\,arccos^2\left(\sqrt{2}-1\right)\right]$	$\approx 81.31°$	$\approx 81° 18'$	≈ 1.419
43	$arctan\left[cos^2\sqrt{3} + cos^2\left(\frac{\pi}{2} - \sqrt{3}\right)\right]$	$45°$	$45° 00'$	$\frac{\pi}{4}$
44	$\frac{10}{9}\,arctan\sqrt{\frac{5-2\sqrt{5}}{5}}$	$20°$	$20° 00'$	$\frac{\pi}{9}$
45	$arcsin\left[\frac{2}{3}arccos\left(\sqrt{3} - \frac{3}{2}\right)\right]$	$\approx 63.01°$	$\approx 63° 01'$	≈ 1.100
46	$\frac{2}{3}\left(arctan\,\pi^2 + arctan\frac{1}{\pi^2}\right)$	$60°$	$60° 00'$	$\frac{\pi}{3}$
47	$arctan\left\lvert\tan\frac{\pi}{4}\right\rvert \Big/ arctan\left(\frac{\left\lvert sin\,\frac{\pi}{4}\right\rvert}{cos\,\frac{\pi}{4}}\right)$	$\approx 57.30°$	$\approx 57° 18'$	1
48	$arccos\sqrt{\sqrt{5}-1}$	*nessuna soluzione (come mai?)*		
49	$arccot\left(1+\sqrt{2}\right) + arccot\left(2+\sqrt{3}\right)$	$37.50°$	$37° 30'$	$\frac{5\pi}{24}$
50	$arccos\left(\frac{\sqrt{5}-1}{4}\right) + arcsin\left(\frac{\sqrt{5}+1}{4}\right)$	$126°$	$126° 00'$	$\frac{7\pi}{10}$
51	$arcsin\frac{\sqrt{7}}{\sqrt[3]{20}} + arccos\frac{\sqrt{7}}{\sqrt[3]{20}}$	$90°$	$90° 00'$	$\frac{\pi}{2}$