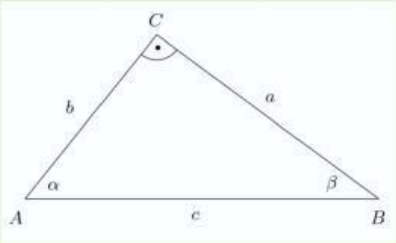
Работен лист

Тема: Приложение на тригонометрията в реалния живот

Име: Клас: Дата:

Част 1. Загрявка (индивидуална работа)

Задача 1: Попълнете липсващите формули



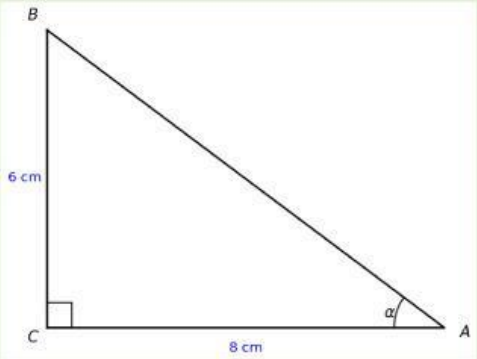
$\sin\alpha = -$

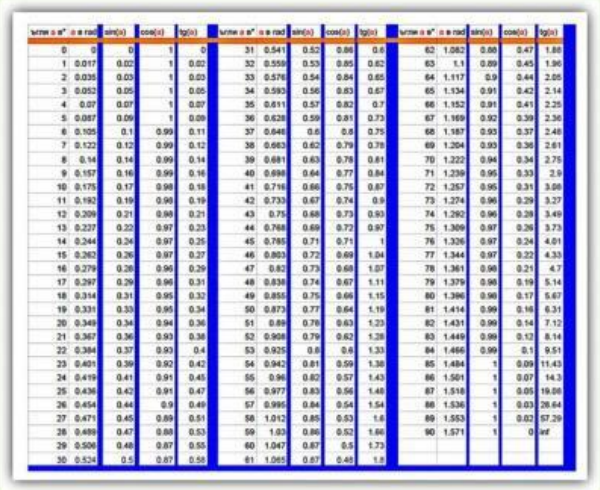
$\cos\alpha = —$

$\mathrm{tg}\,\alpha = —$

Задача 2: Даден е правоъгълен триъгълник с прилежащ катет 8см и срещулежащ катет 6см.

Намерете: $\mathrm{tg}\,\alpha = -$ $\alpha =$ °





ъгъл α в°	α в rad	sin(α)	cos(α)	tg(α)	ъгъл α в°	α в rad	sin(α)	cos(α)	tg(α)	ъгъл α в°	α в rad	sin(α)	cos(α)	tg(α)
0	0	0	1	0	31	0.541	0.52	0.86	0.6	62	1.082	0.88	0.47	1.88
1	0.017	0.02	1	0.02	32	0.559	0.53	0.85	0.62	63	1.1	0.89	0.45	1.96
2	0.035	0.03	1	0.03	33	0.576	0.54	0.84	0.65	64	1.117	0.9	0.44	2.05
3	0.052	0.05	1	0.05	34	0.593	0.56	0.83	0.67	65	1.134	0.91	0.42	2.14
4	0.07	0.07	1	0.07	35	0.611	0.57	0.82	0.7	66	1.152	0.91	0.41	2.25
5	0.087	0.09	1	0.09	36	0.628	0.59	0.81	0.73	67	1.169	0.92	0.39	2.36
6	0.105	0.1	0.99	0.11	37	0.646	0.6	0.8	0.75	68	1.187	0.93	0.37	2.48
7	0.122	0.12	0.99	0.12	38	0.663	0.62	0.79	0.78	69	1.204	0.93	0.36	2.61
8	0.14	0.14	0.99	0.14	39	0.681	0.63	0.78	0.81	70	1.222	0.94	0.34	2.75
9	0.157	0.16	0.99	0.16	40	0.698	0.64	0.77	0.84	71	1.239	0.95	0.33	2.9
10	0.175	0.17	0.98	0.18	41	0.716	0.66	0.75	0.87	72	1.257	0.95	0.31	3.08
11	0.192	0.19	0.98	0.19	42	0.733	0.67	0.74	0.9	73	1.274	0.96	0.29	3.27
12	0.209	0.21	0.98	0.21	43	0.75	0.68	0.73	0.93	74	1.292	0.96	0.28	3.49
13	0.227	0.22	0.97	0.23	44	0.768	0.69	0.72	0.97	75	1.309	0.97	0.26	3.73
14	0.244	0.24	0.97	0.25	45	0.785	0.71	0.71	1	76	1.326	0.97	0.24	4.01
15	0.262	0.26	0.97	0.27	46	0.803	0.72	0.69	1.04	77	1.344	0.97	0.22	4.33
16	0.279	0.28	0.96	0.29	47	0.82	0.73	0.68	1.07	78	1.361	0.98	0.21	4.7
17	0.297	0.29	0.96	0.31	48	0.838	0.74	0.67	1.11	79	1.379	0.98	0.19	5.14
18	0.314	0.31	0.95	0.32	49	0.855	0.75	0.66	1.15	80	1.396	0.98	0.17	5.67
19	0.331	0.33	0.95	0.34	50	0.873	0.77	0.64	1.19	81	1.414	0.99	0.16	6.31
20	0.349	0.34	0.94	0.36	51	0.89	0.78	0.63	1.23	82	1.431	0.99	0.14	7.12
21	0.367	0.36	0.93	0.38	52	0.908	0.79	0.62	1.28	83	1.449	0.99	0.12	8.14
22	0.384	0.37	0.93	0.4	53	0.925	0.8	0.6	1.33	84	1.466	0.99	0.1	9.51
23	0.401	0.39	0.92	0.42	54	0.942	0.81	0.59	1.38	85	1.484	1	0.09	11.43
24	0.419	0.41	0.91	0.45	55	0.96	0.82	0.57	1.43	86	1.501	1	0.07	14.3
25	0.436	0.42	0.91	0.47	56	0.977	0.83	0.56	1.48	87	1.518	1	0.05	19.08
26	0.454	0.44	0.9	0.49	57	0.995	0.84	0.54	1.54	88	1.536	1	0.03	28.64
27	0.471	0.45	0.89	0.51	58	1.012	0.85	0.53	1.6	89	1.553	1	0.02	57.29
28	0.489	0.47	0.88	0.53	59	1.03	0.86	0.52	1.66	90	1.571	1	0	inf
29	0.506	0.48	0.87	0.55	60	1.047	0.87	0.5	1.73					
30	0.524	0.5	0.87	0.58	61	1.065	0.87	0.48	1.8					

Задача 3: Свържете тригонометричната функция с приложението:

sin		намиране на височина
cos		намиране на хипотенуза
tg		намиране на наклон

LIVEWORKSHEETS