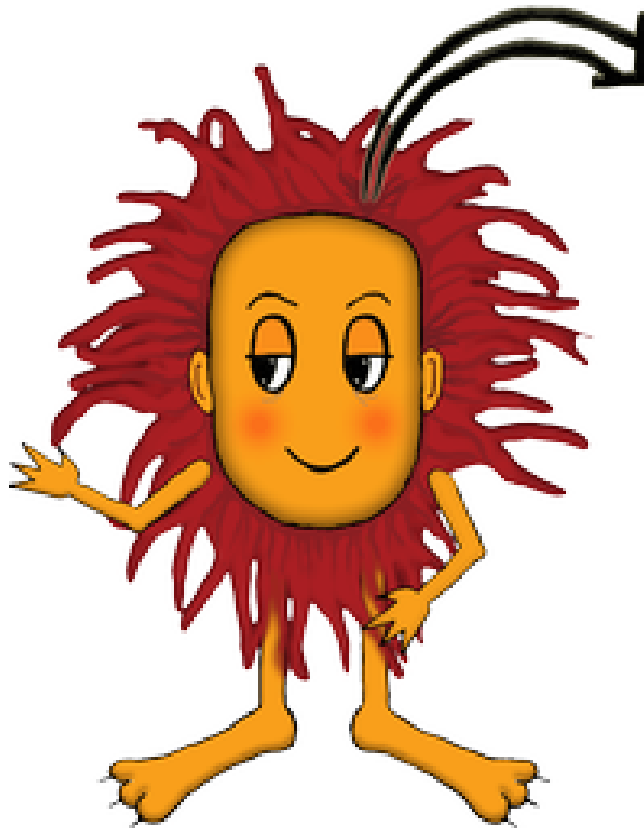


# Velika logična pošast



## Aritmetična, geometrična in harmonična sredina

Na x osi imamo točke A, C, B in I,  
tako da je  $|AO|=a$ ,  $|OC|=b$ ,  $|OB|=|AI|=(a+b)/2$ .

Na y osi imamo točko D, tako da je  $|OD|=b$ .

Točka G je presek krožnice s središčem v I in radijem  $|IA|$ .

Zato je  $|OG|=\sqrt{ab}$ , to je geometrijska sredina a in b.

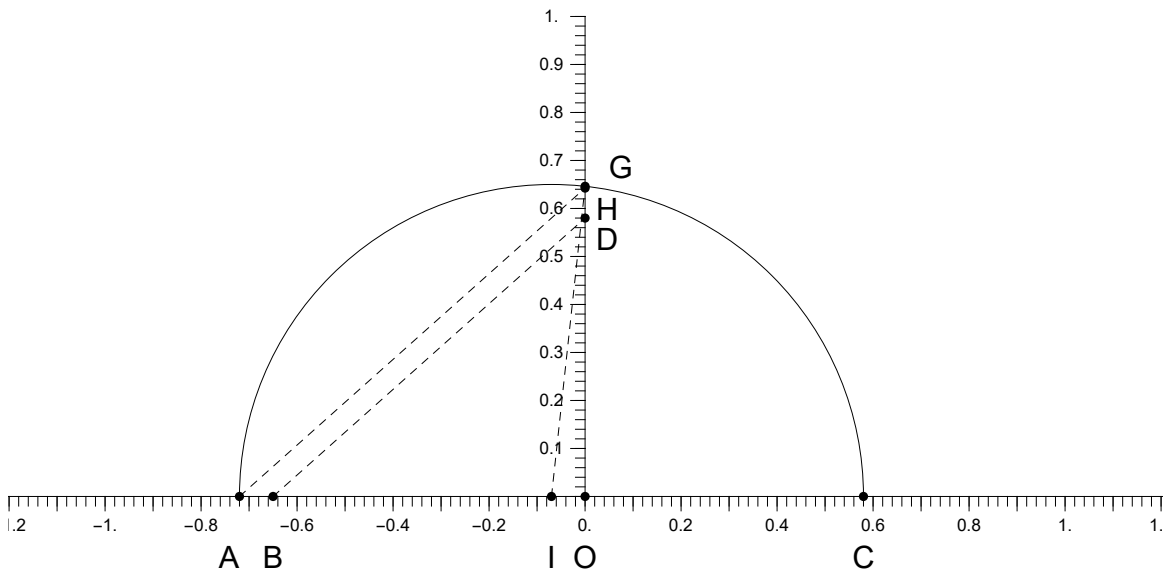
Točka H naj bo presek premice, ki gre skozi A in je vzporedna z BD, in y osjo.

Zaradi podobnosti trikotnikov AOH in BOD je

$2a/(a+b)=|OH|/b$ , oziroma,  $|OH|=2ab/(a+b)$ ,

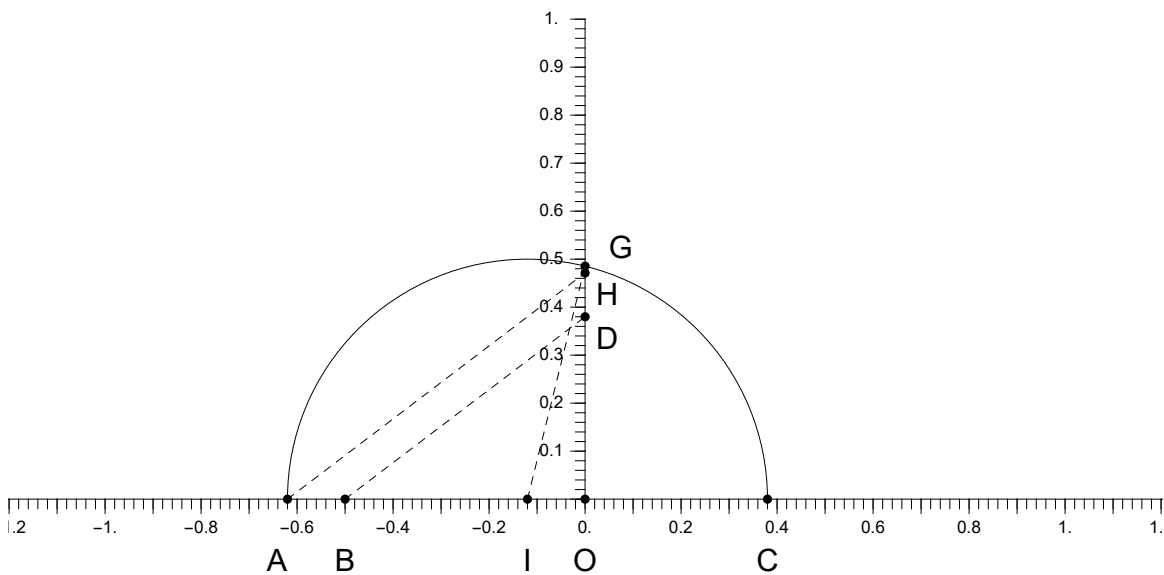
to je harmonična sredina a in b.

1.



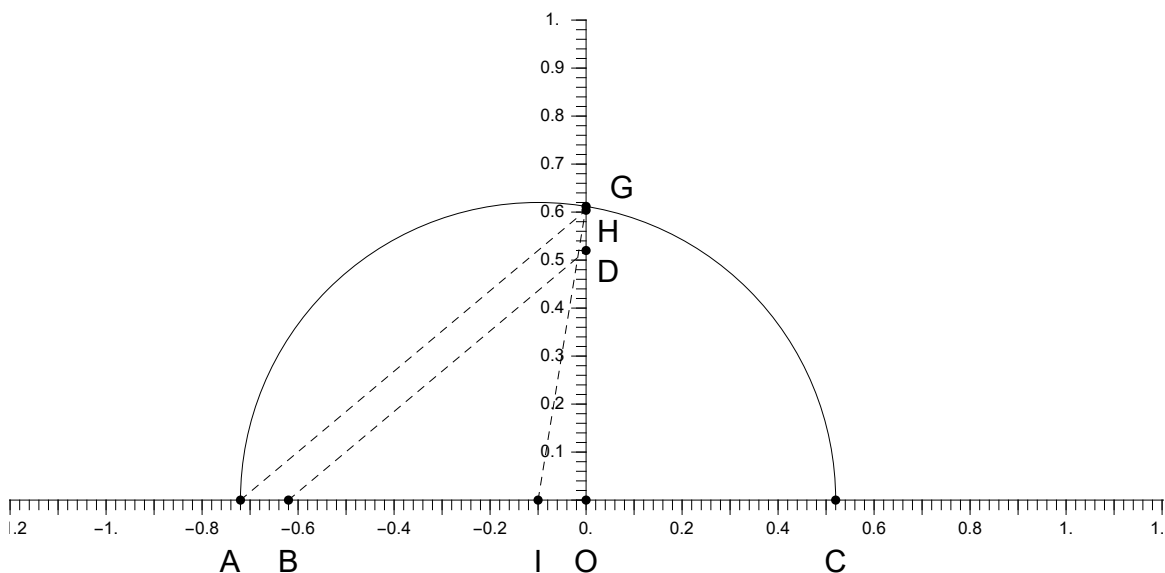
$a= AO $	$b= CO $	$(a+b)/2= IG $	$\sqrt{ab}= OG $	$2ab/(a+b)= OH $
0.72	0.58			

2.



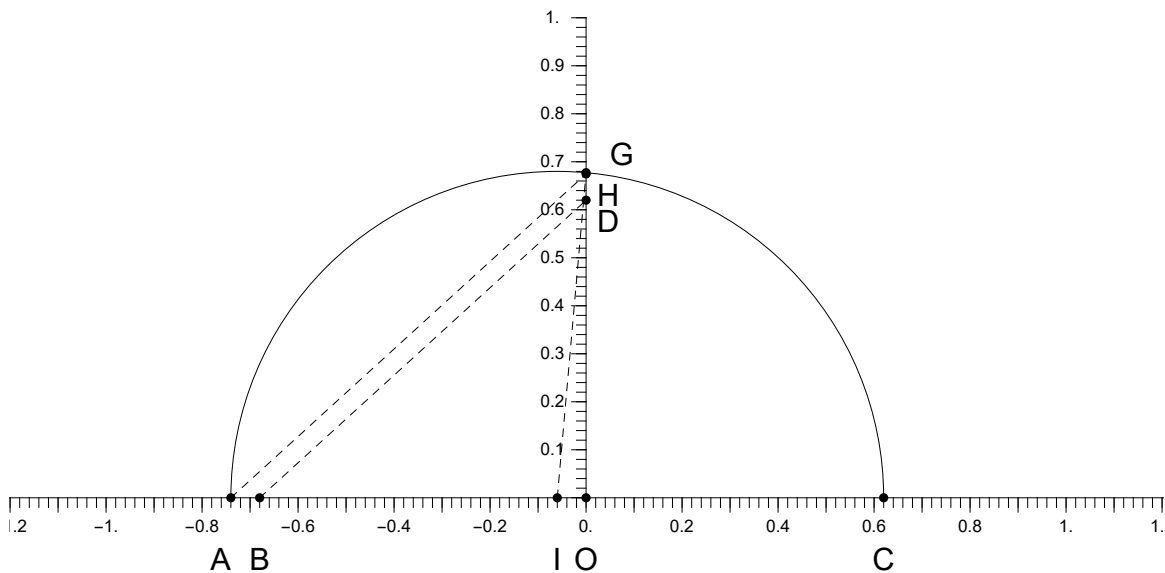
$a= AO $	$b= CO $	$(a+b)/2= IG $	$\sqrt{ab}= OG $	$2ab/(a+b)= OH $
0.62	0.38			

3.



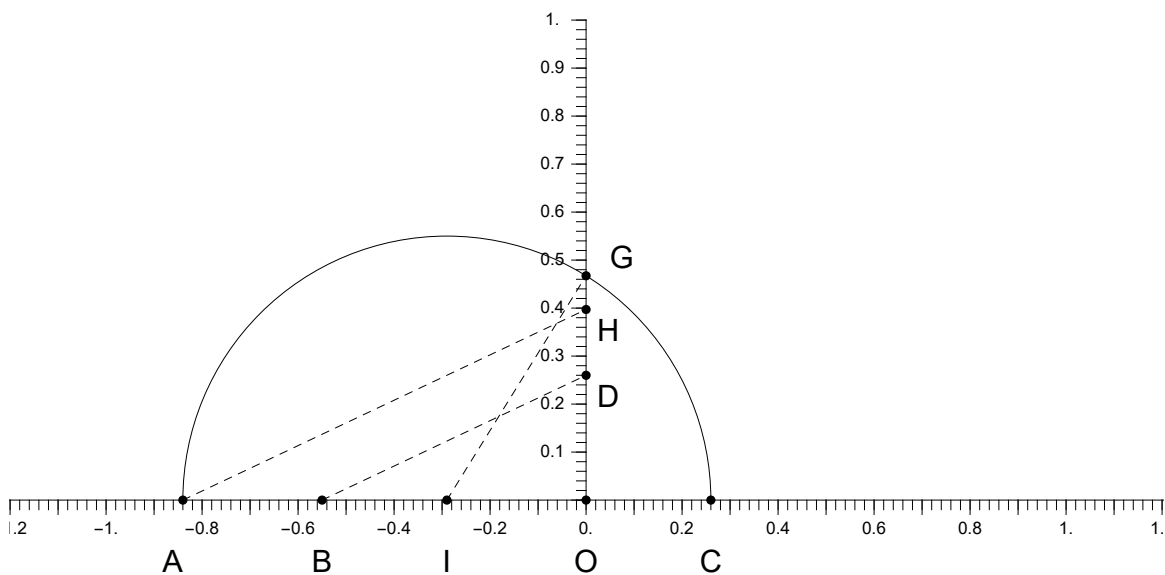
$a= AO $	$b= CO $	$(a+b)/2= IG $	$\sqrt{ab}= OG $	$2ab/(a+b)= OH $
0.72	0.52			

4.



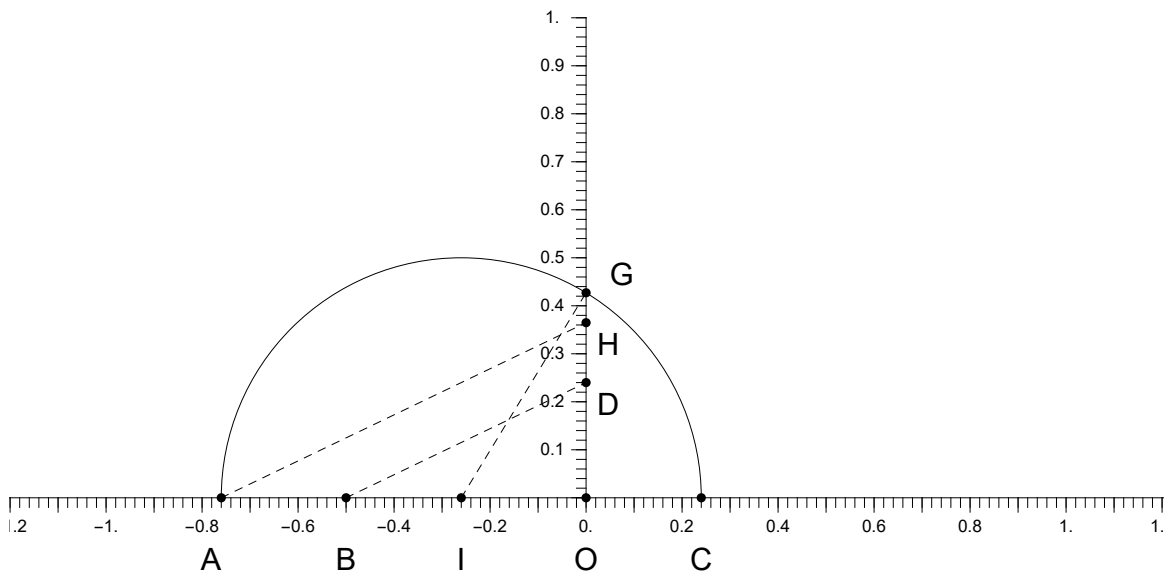
$a= AO $	$b= CO $	$(a+b)/2= IG $	$\sqrt{ab}= OG $	$2ab/(a+b)= OH $
0.74	0.62			

5.



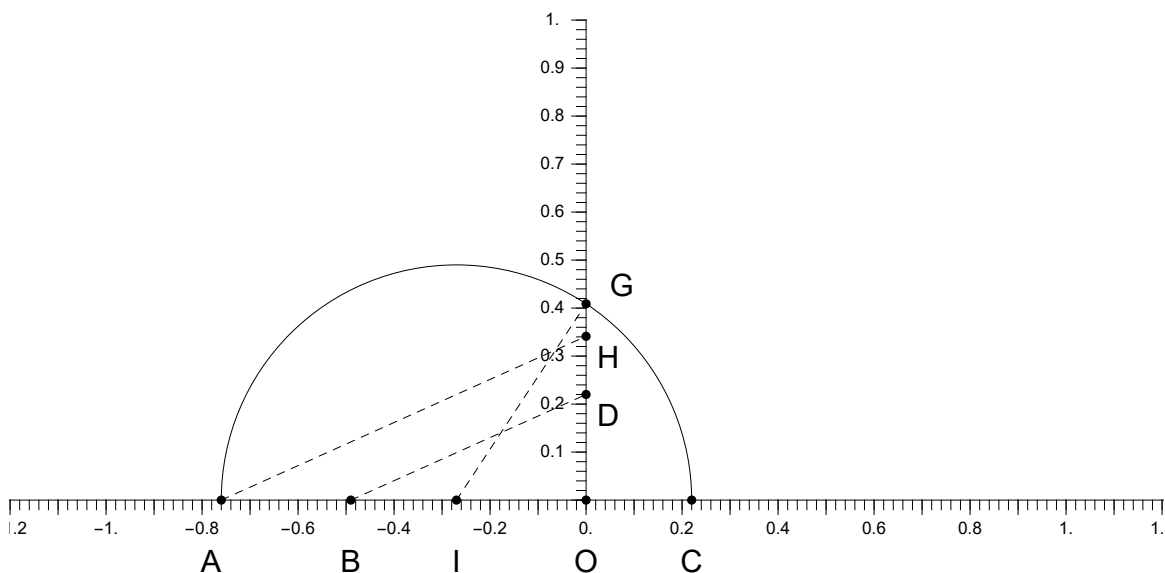
$a= AO $	$b= CO $	$(a+b)/2= IG $	$\sqrt{ab}= OG $	$2ab/(a+b)= OH $
0.84	0.26			

6.



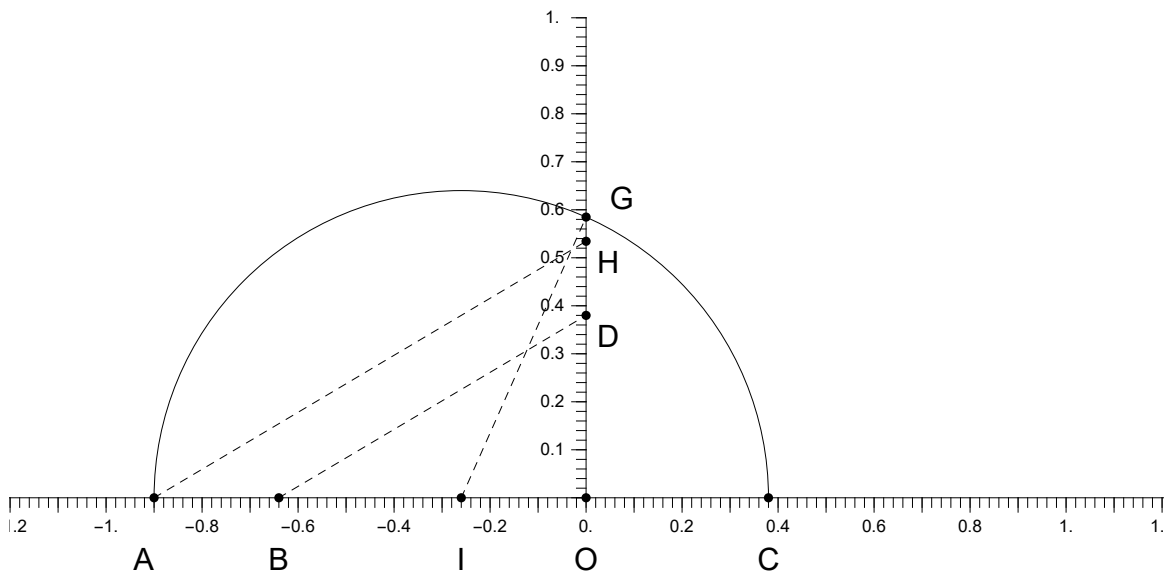
$a= AO $	$b= CO $	$(a+b)/2= IG $	$\sqrt{ab}= OG $	$2ab/(a+b)= OH $
0.76	0.24			

7.



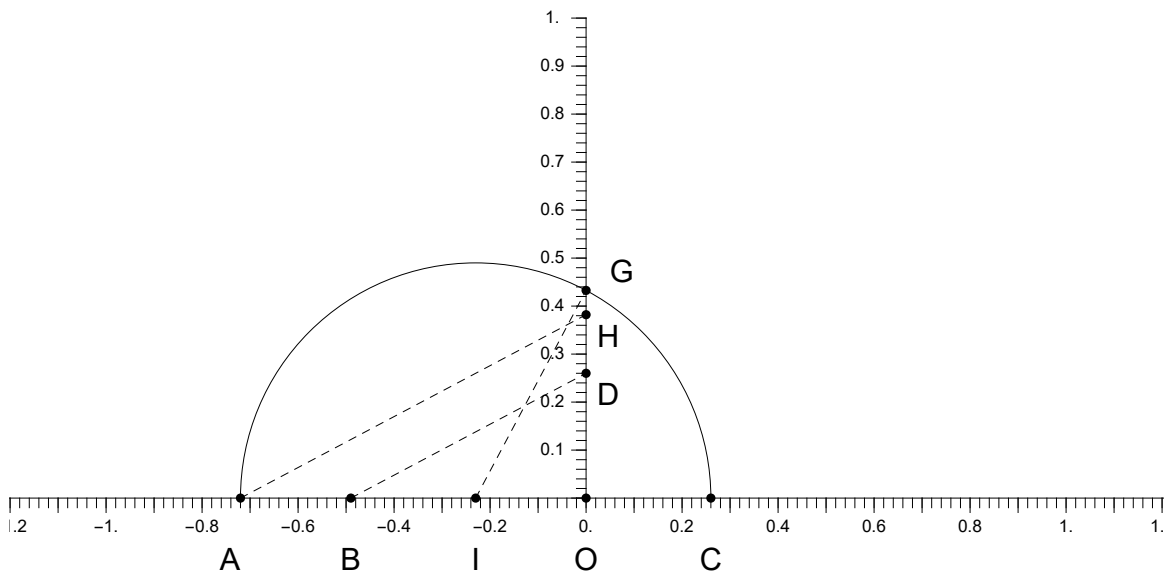
$a= AO $	$b= CO $	$(a+b)/2= IG $	$\sqrt{ab}= OG $	$2ab/(a+b)= OH $
0.76	0.22			

8.



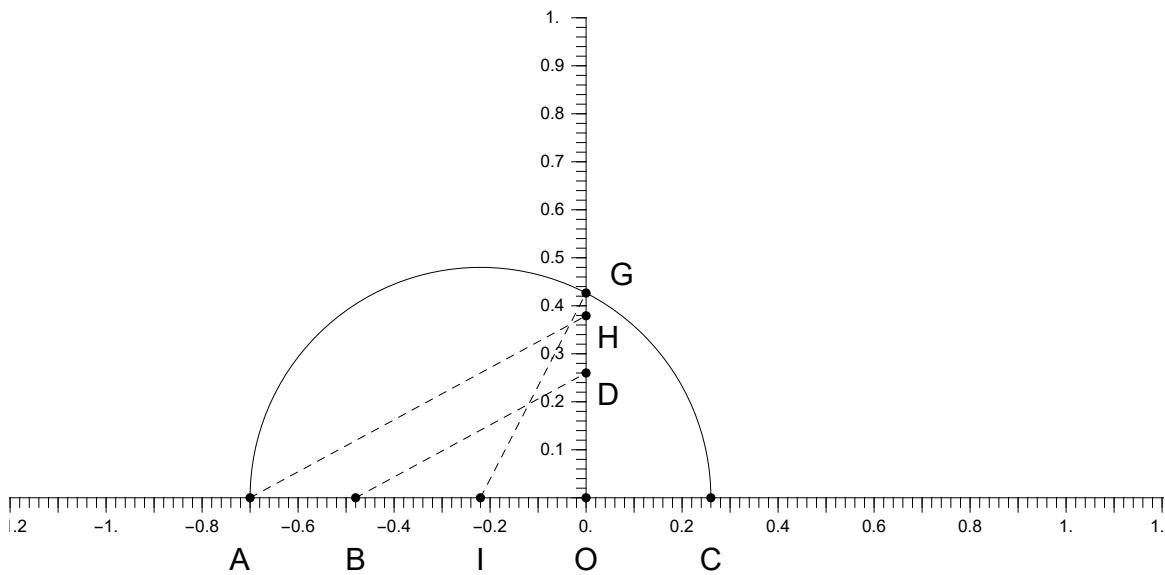
$a= AO $	$b= CO $	$(a+b)/2= IG $	$\sqrt{ab}= OG $	$2ab/(a+b)= OH $
0.9	0.38			

9.



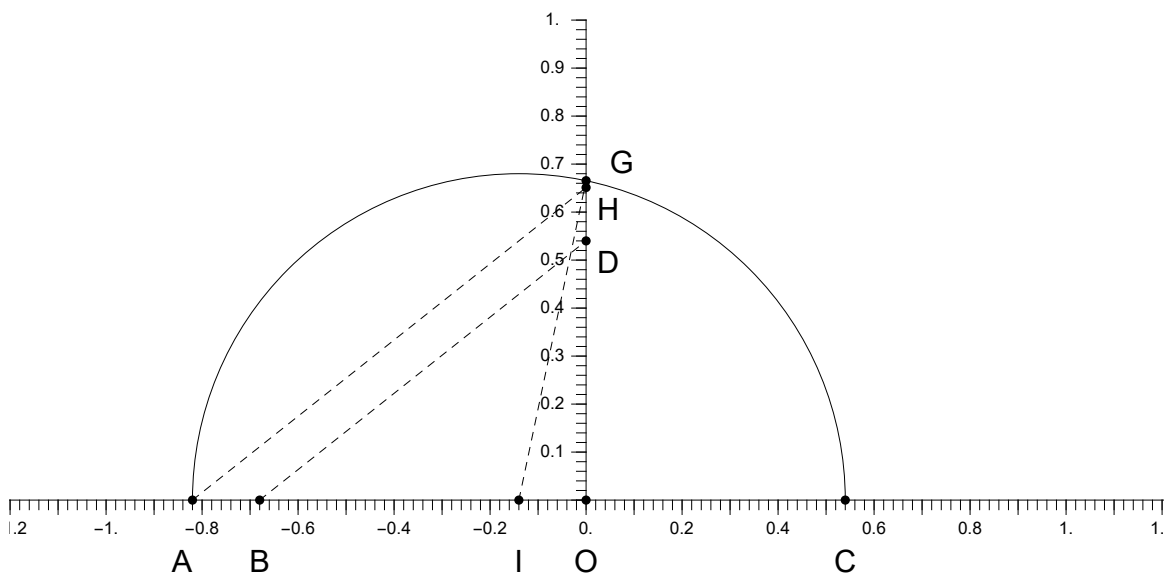
$a= AO $	$b= CO $	$(a+b)/2= IG $	$\sqrt{ab}= OG $	$2ab/(a+b)= OH $
0.72	0.26			

10.



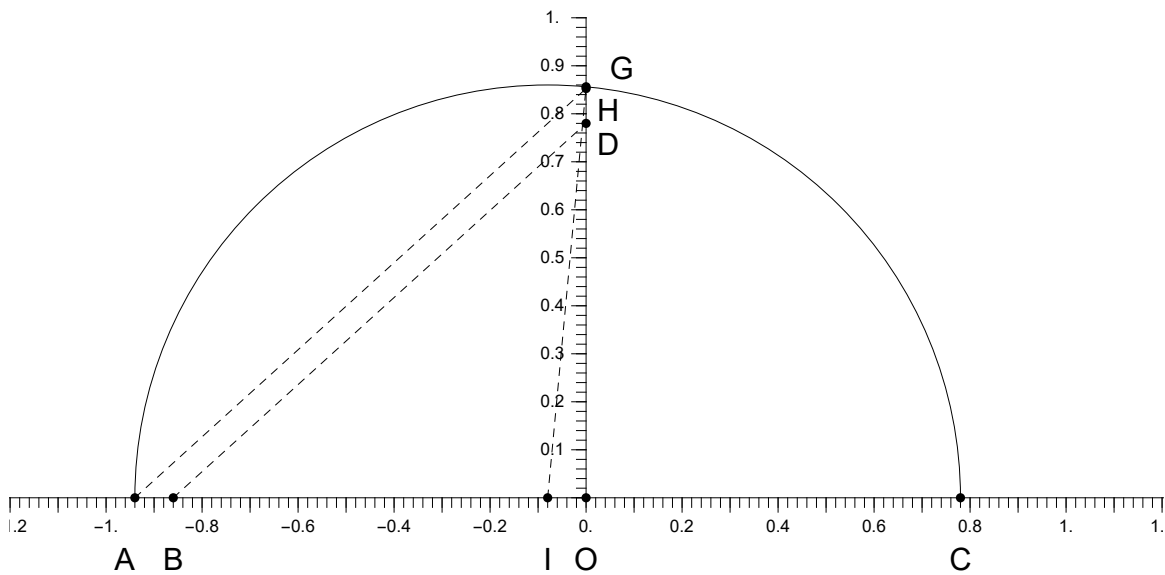
$a= AO $	$b= CO $	$(a+b)/2= IG $	$\sqrt{ab}= OG $	$2ab/(a+b)= OH $
0.7	0.26			

11.



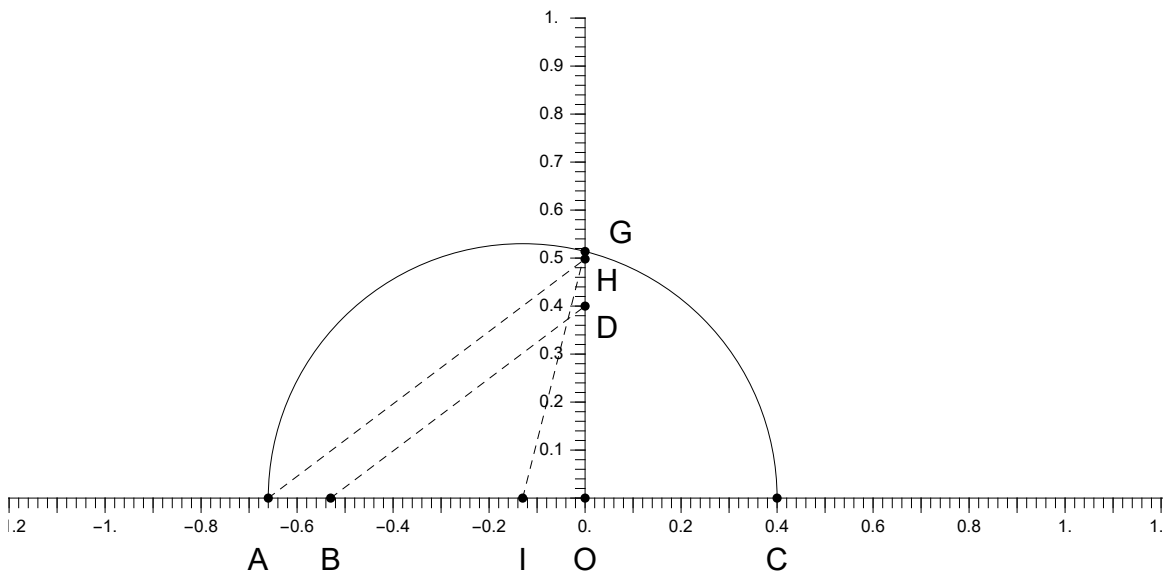
$a= AO $	$b= CO $	$(a+b)/2= IG $	$\sqrt{ab}= OG $	$2ab/(a+b)= OH $
0.82	0.54			

12.



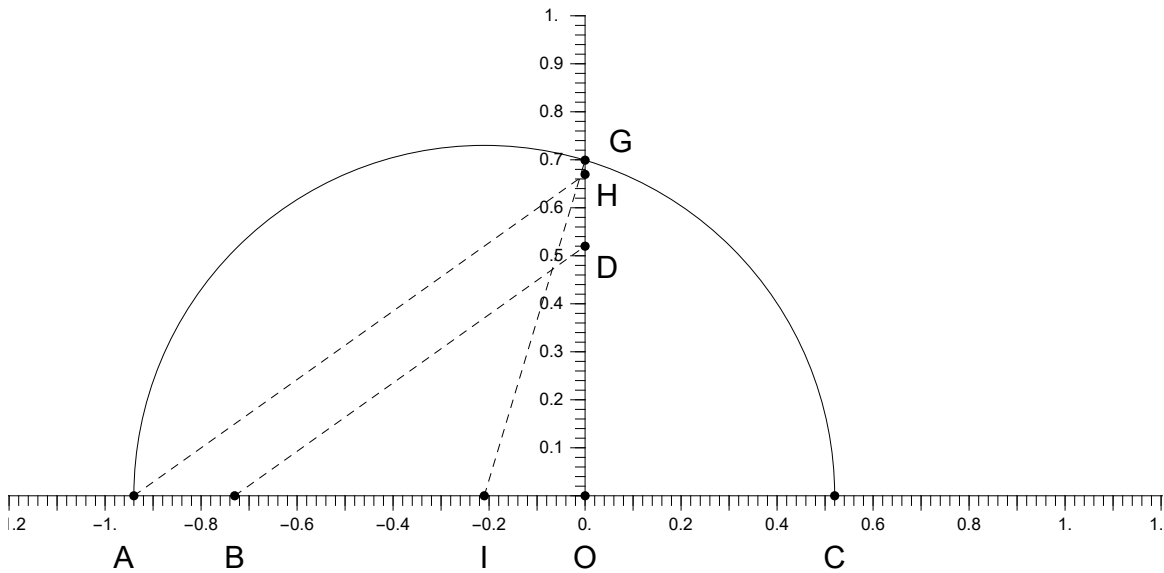
$a= AO $	$b= CO $	$(a+b)/2= IG $	$\sqrt{ab}= OG $	$2ab/(a+b)= OH $
0.94	0.78			

13.



$a= AO $	$b= CO $	$(a+b)/2= IG $	$\sqrt{ab}= OG $	$2ab/(a+b)= OH $
0.66	0.4			

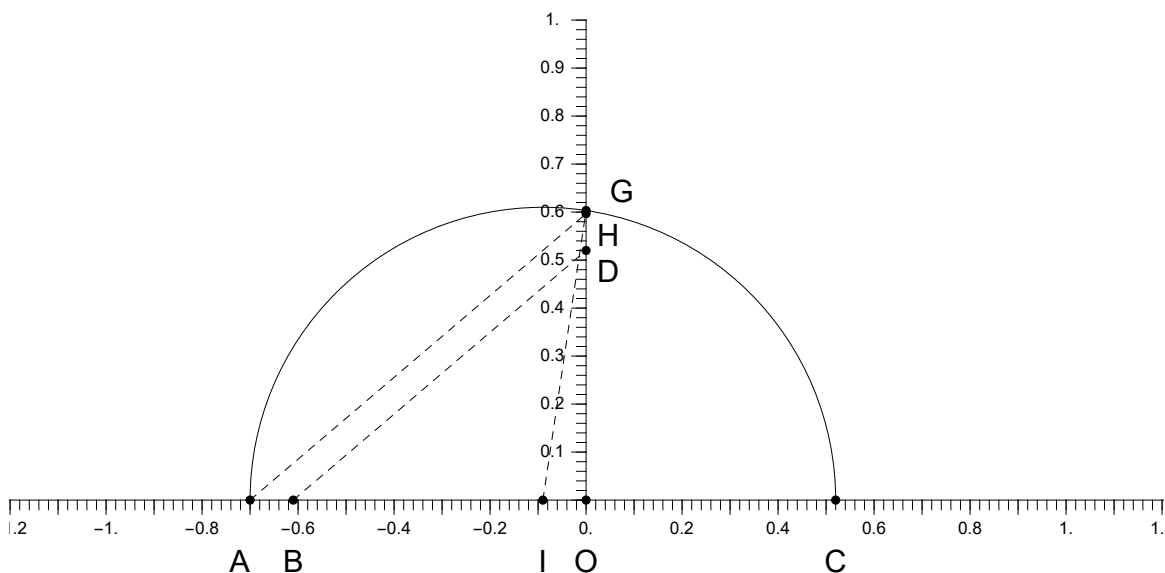
14.



$a= AO $	$b= CO $	$(a+b)/2= IG $	$\sqrt{ab}= OG $	$2ab/(a+b)= OH $
0.94	0.52			

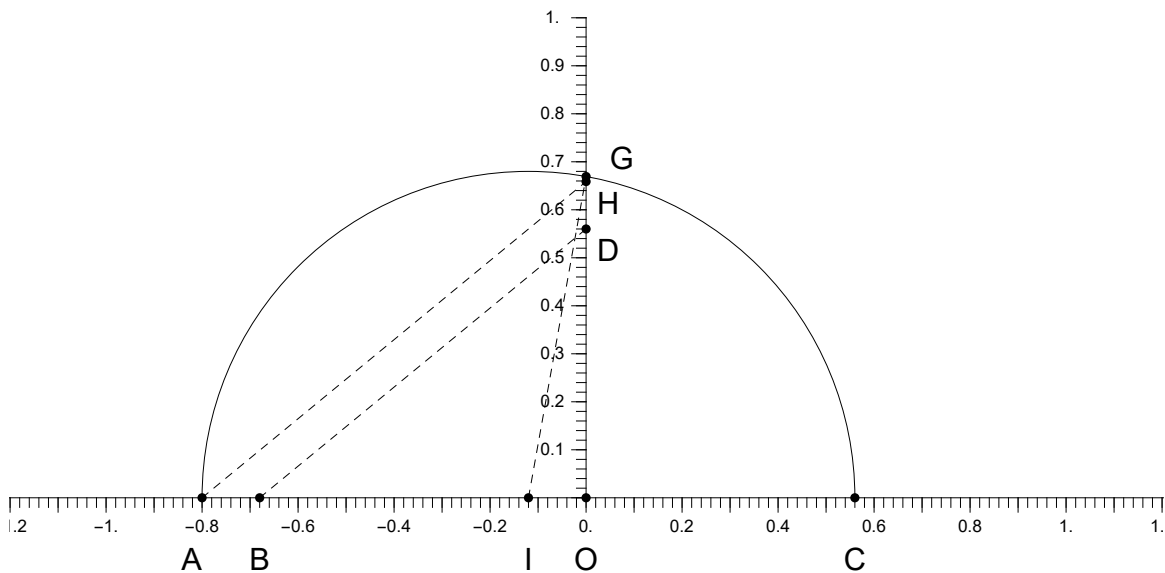


15.



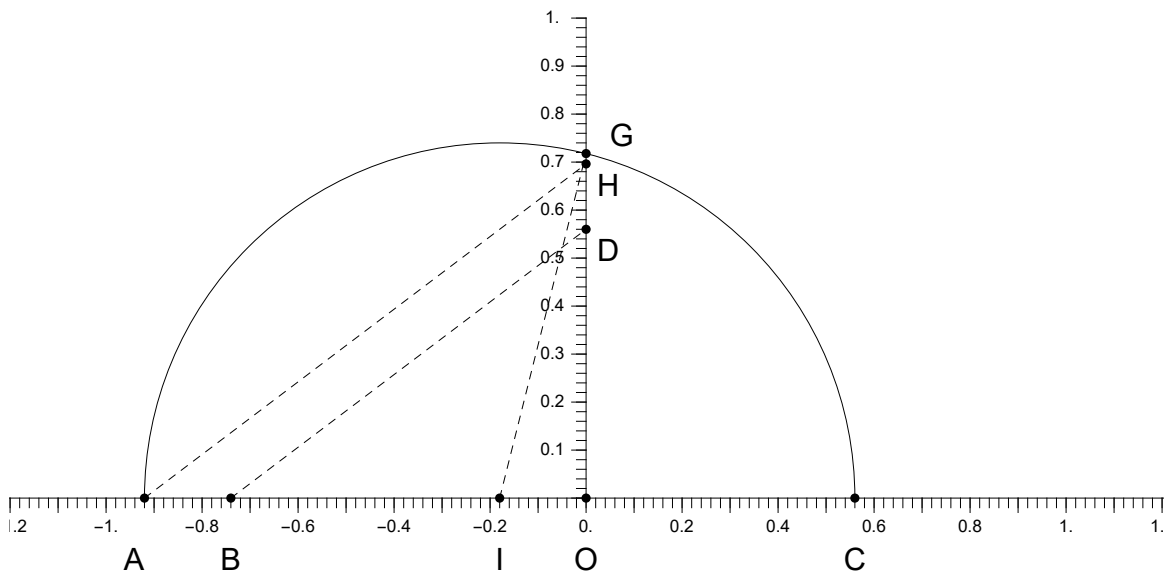
$a= AO $	$b= CO $	$(a+b)/2= IG $	$\sqrt{ab}= OG $	$2ab/(a+b)= OH $
0.7	0.52			

16.



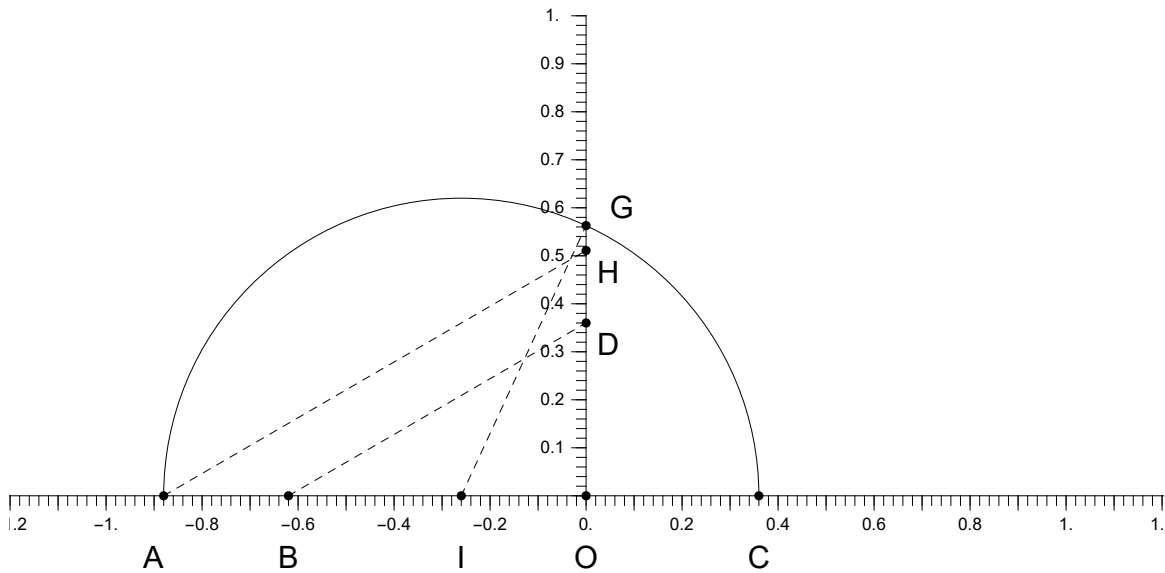
$a= AO $	$b= CO $	$(a+b)/2= IG $	$\sqrt{ab}= OG $	$2ab/(a+b)= OH $
0.8	0.56			

17.



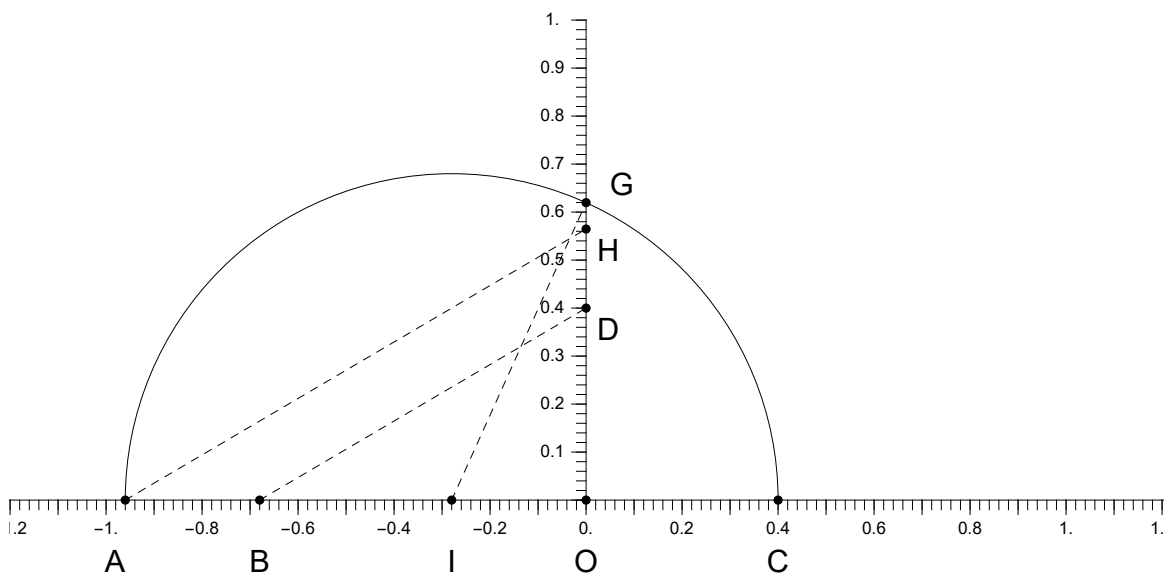
$a= AO $	$b= CO $	$(a+b)/2= IG $	$\sqrt{ab}= OG $	$2ab/(a+b)= OH $
0.92	0.56			

18.



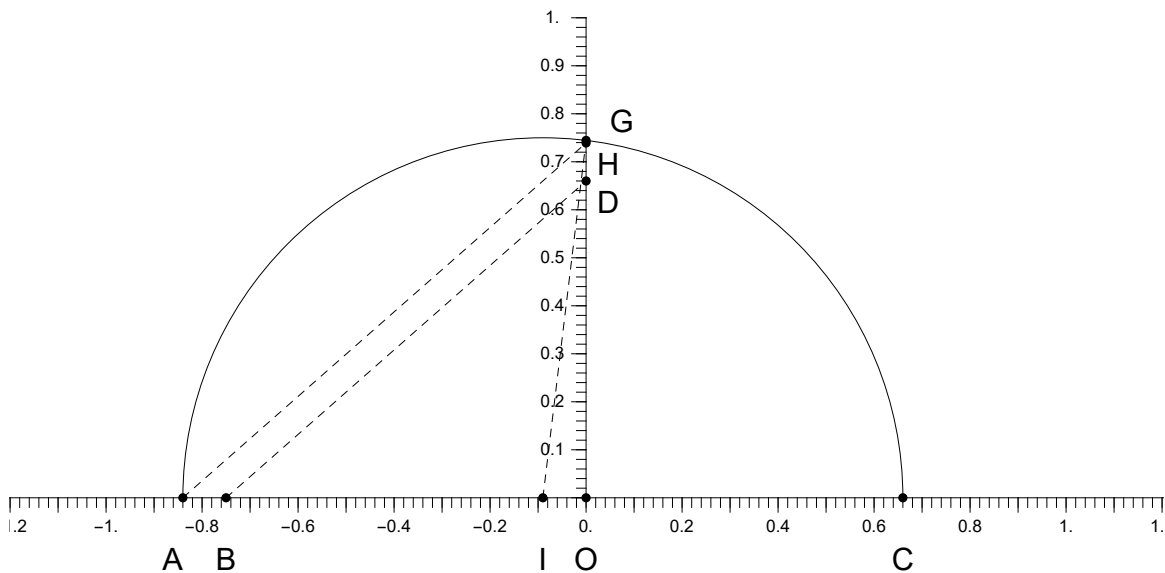
$a= AO $	$b= CO $	$(a+b)/2= IG $	$\sqrt{ab}= OG $	$2ab/(a+b)= OH $
0.88	0.36			

19.



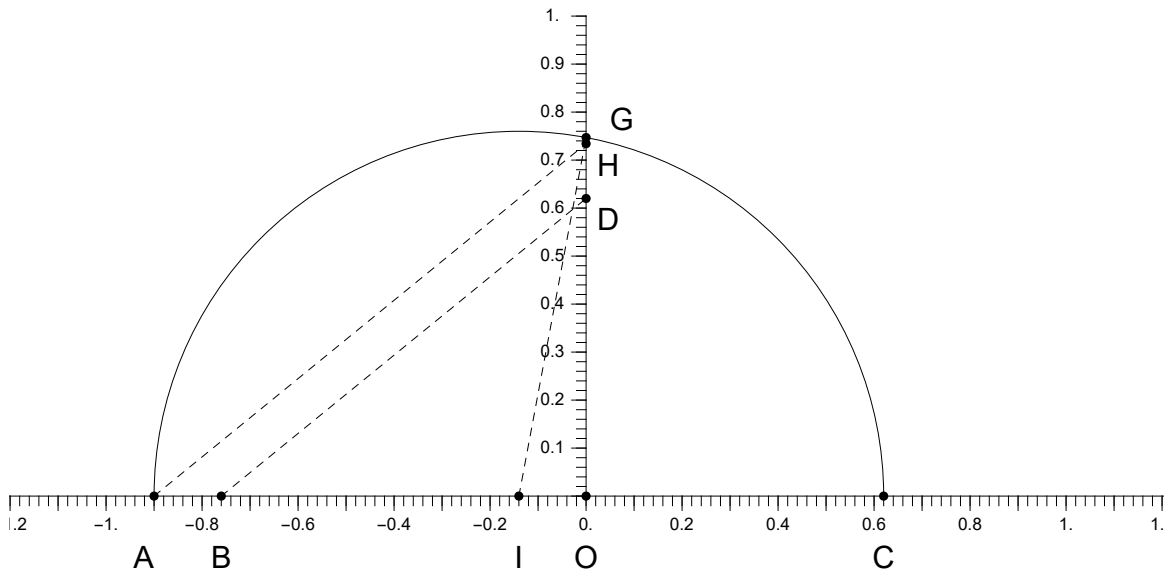
$a= AO $	$b= CO $	$(a+b)/2= IG $	$\sqrt{ab}= OG $	$2ab/(a+b)= OH $
0.96	0.4			

20.



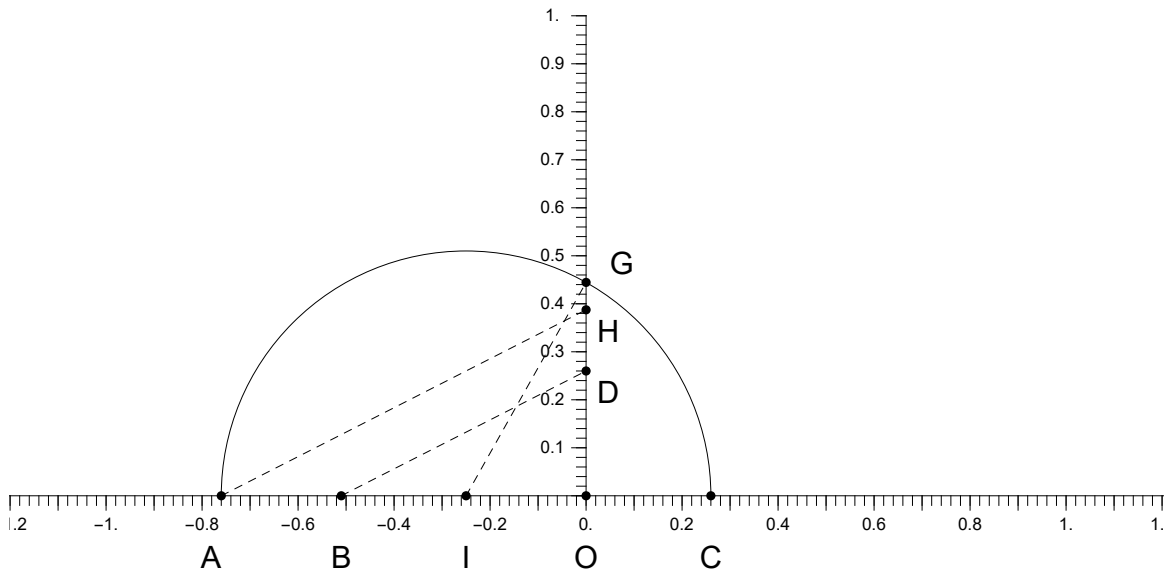
$a= AO $	$b= CO $	$(a+b)/2= IG $	$\sqrt{ab}= OG $	$2ab/(a+b)= OH $
0.84	0.66			

21.



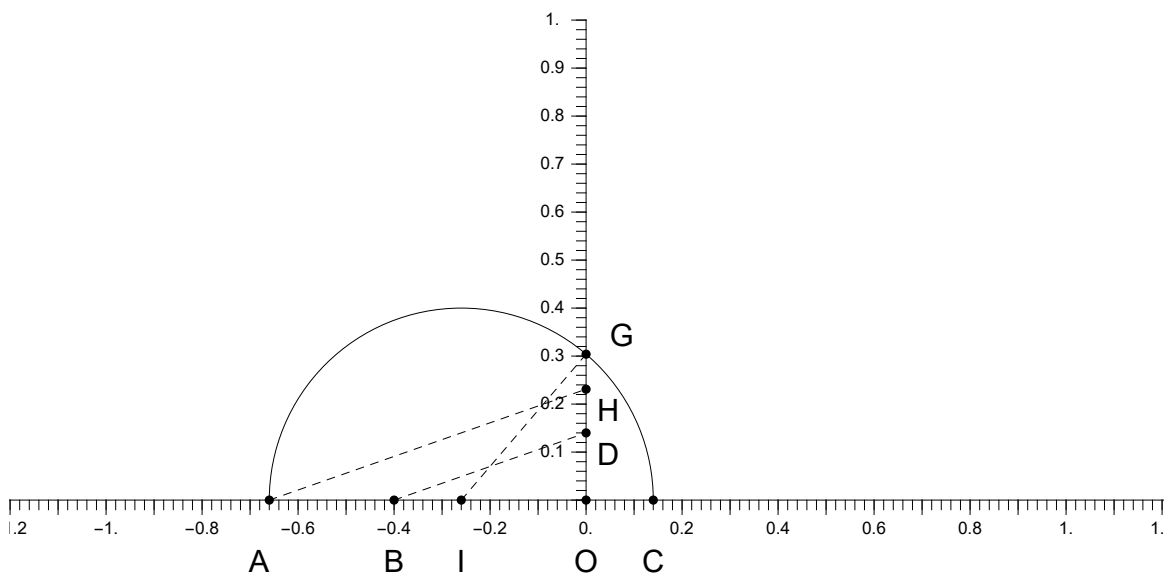
$a= AO $	$b= CO $	$(a+b)/2= IG $	$\sqrt{ab}= OG $	$2ab/(a+b)= OH $
0.9	0.62			

22.



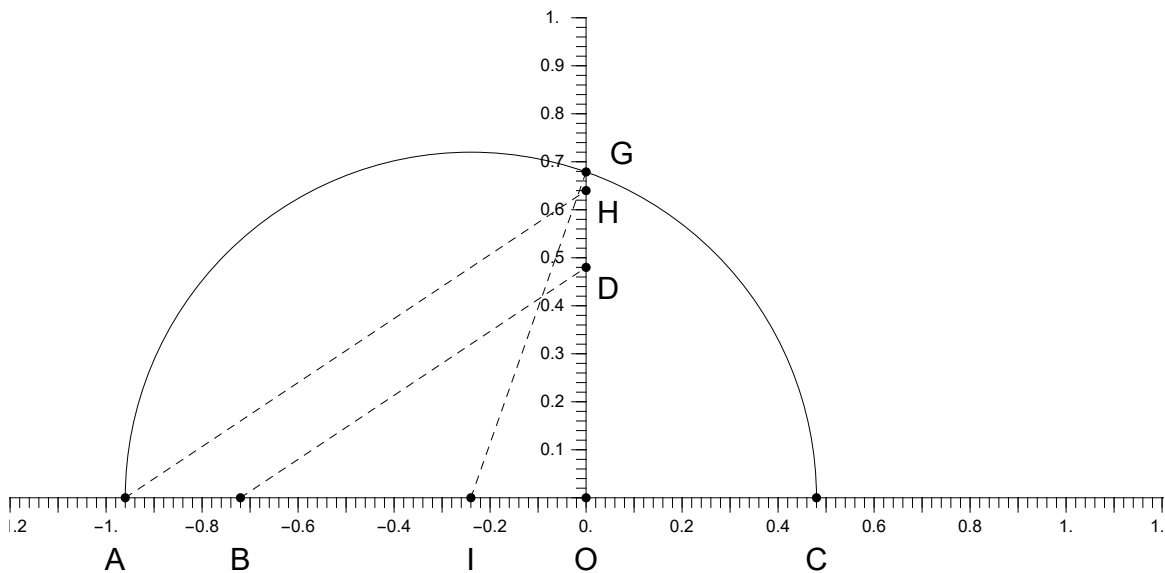
$a= AO $	$b= CO $	$(a+b)/2= IG $	$\sqrt{ab}= OG $	$2ab/(a+b)= OH $
0.76	0.26			

23.



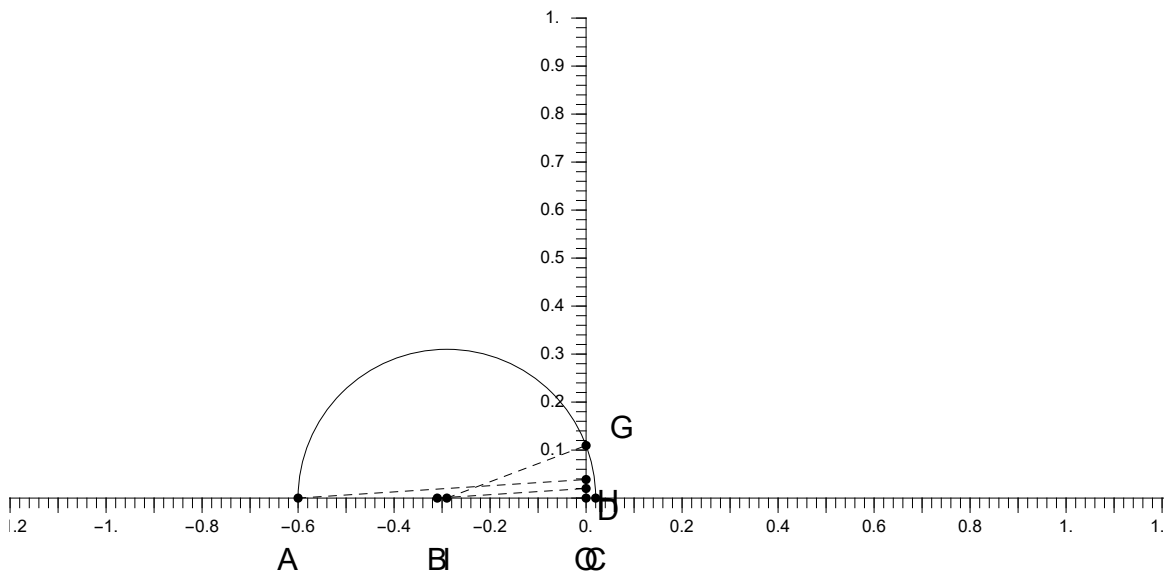
$a= AO $	$b= CO $	$(a+b)/2= IG $	$\sqrt{ab}= OG $	$2ab/(a+b)= OH $
0.66	0.14			

24.



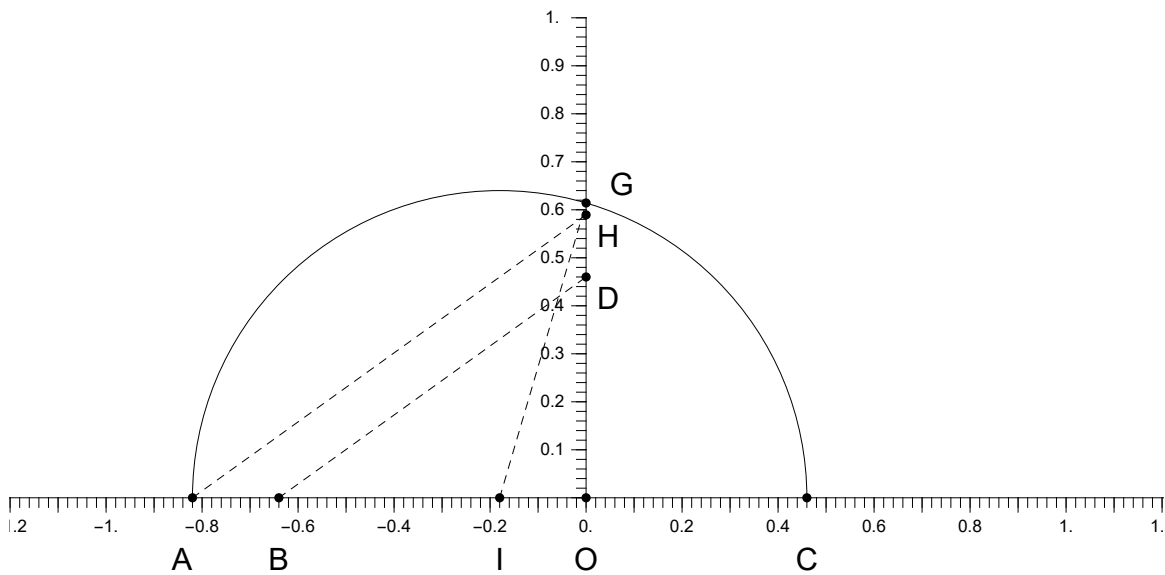
$a= AO $	$b= CO $	$(a+b)/2= IG $	$\sqrt{ab}= OG $	$2ab/(a+b)= OH $
0.96	0.48			

25.



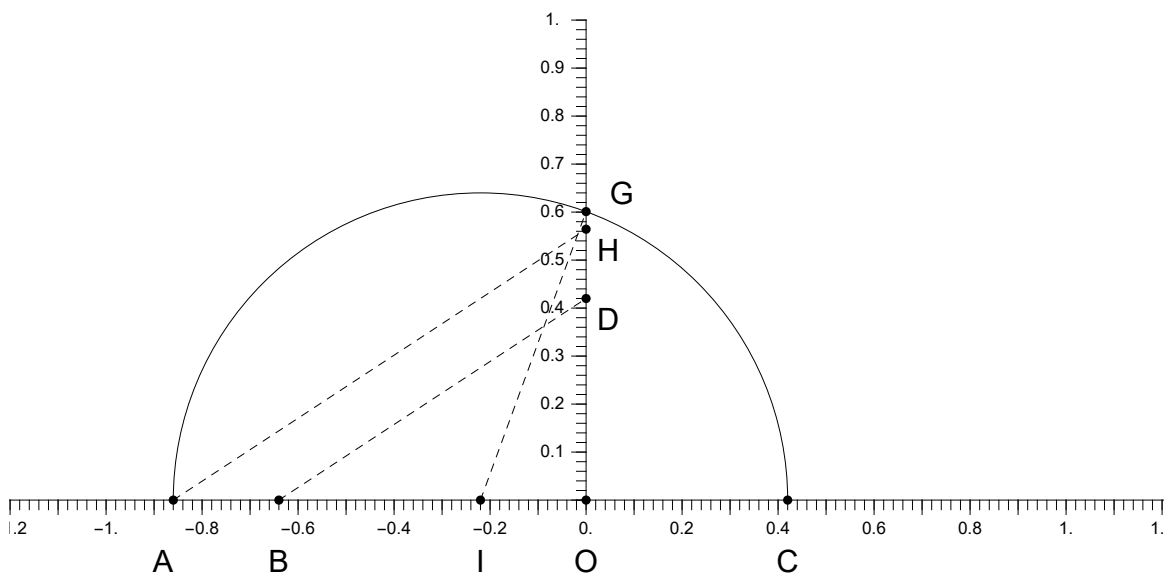
$a= AO $	$b= CO $	$(a+b)/2= IG $	$\sqrt{ab}= OG $	$2ab/(a+b)= OH $
0.6	0.02			

26.



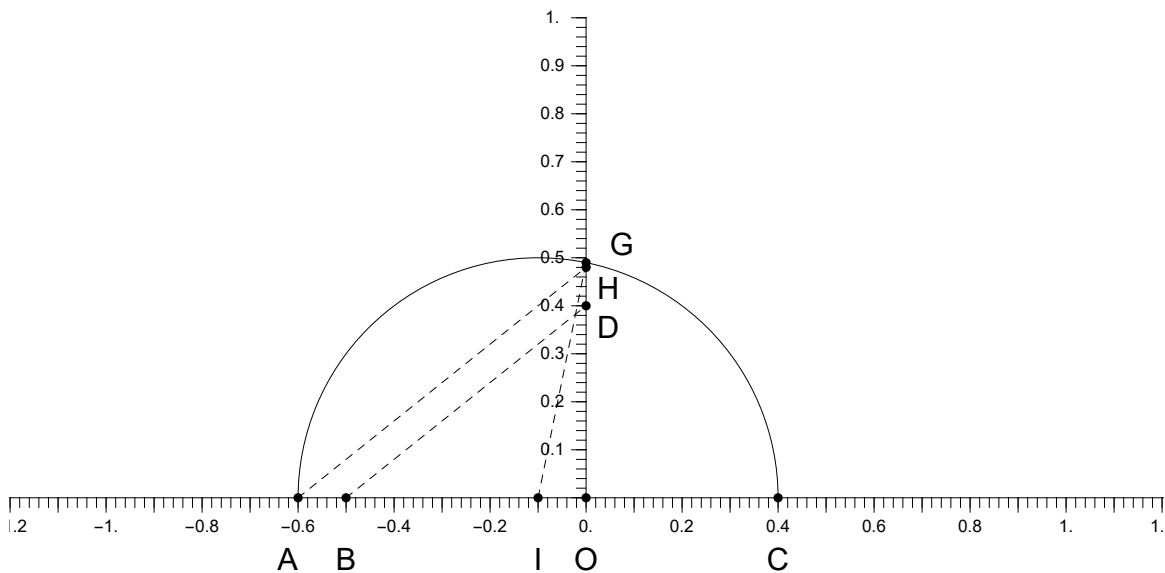
$a= AO $	$b= CO $	$(a+b)/2= IG $	$\sqrt{ab}= OG $	$2ab/(a+b)= OH $
0.82	0.46			

27.



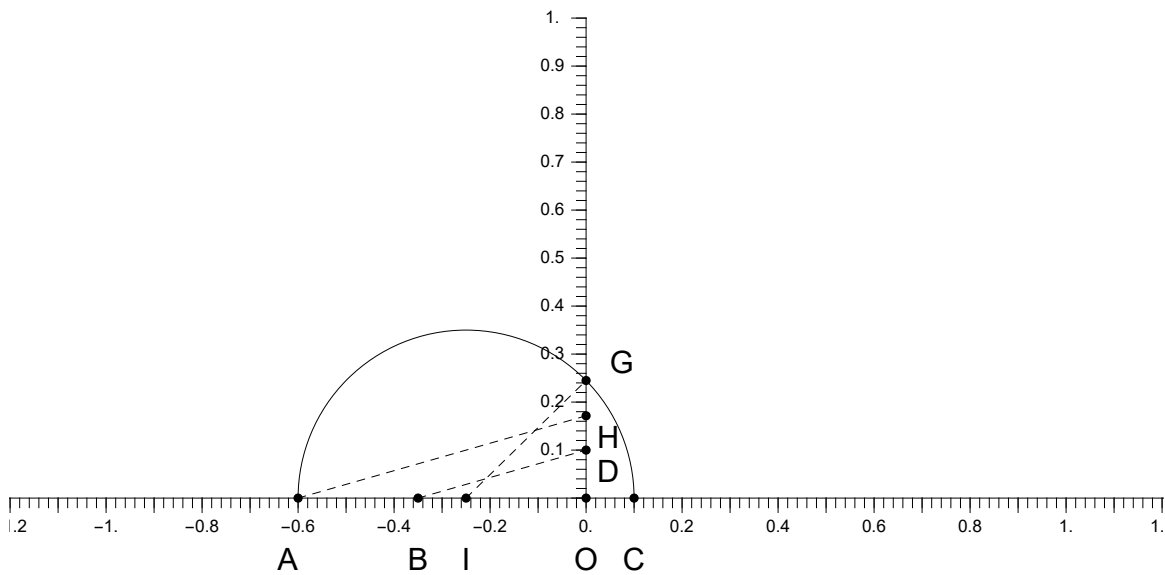
$a= AO $	$b= CO $	$(a+b)/2= IG $	$\sqrt{ab}= OG $	$2ab/(a+b)= OH $
0.86	0.42			

28.



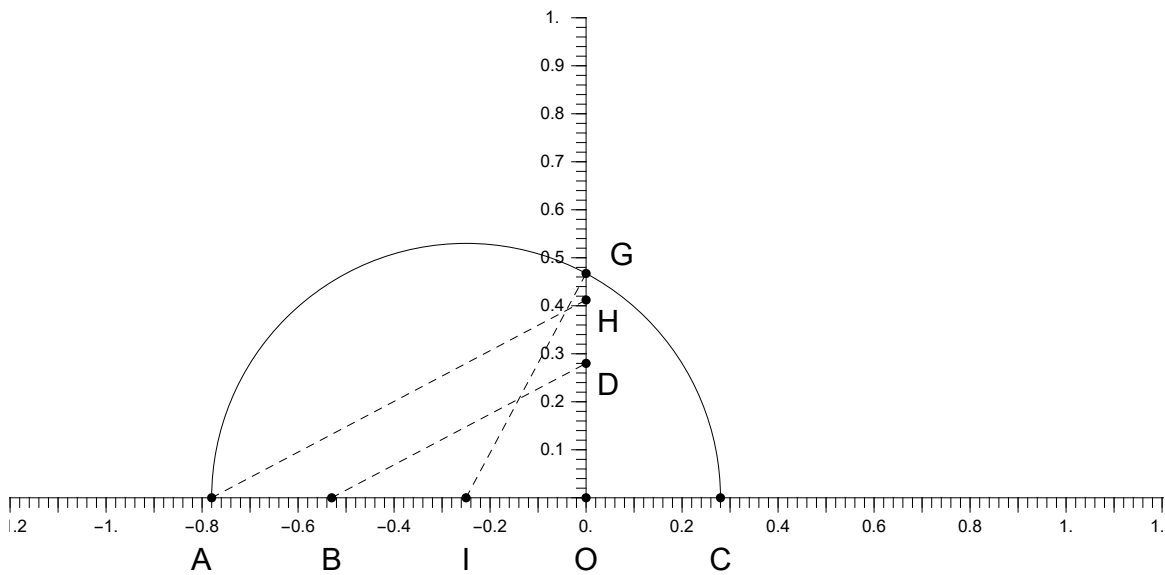
$a= AO $	$b= CO $	$(a+b)/2= IG $	$\sqrt{ab}= OG $	$2ab/(a+b)= OH $
0.6	0.4			

29.



$a= AO $	$b= CO $	$(a+b)/2= IG $	$\sqrt{ab}= OG $	$2ab/(a+b)= OH $
0.6	0.1			

30.

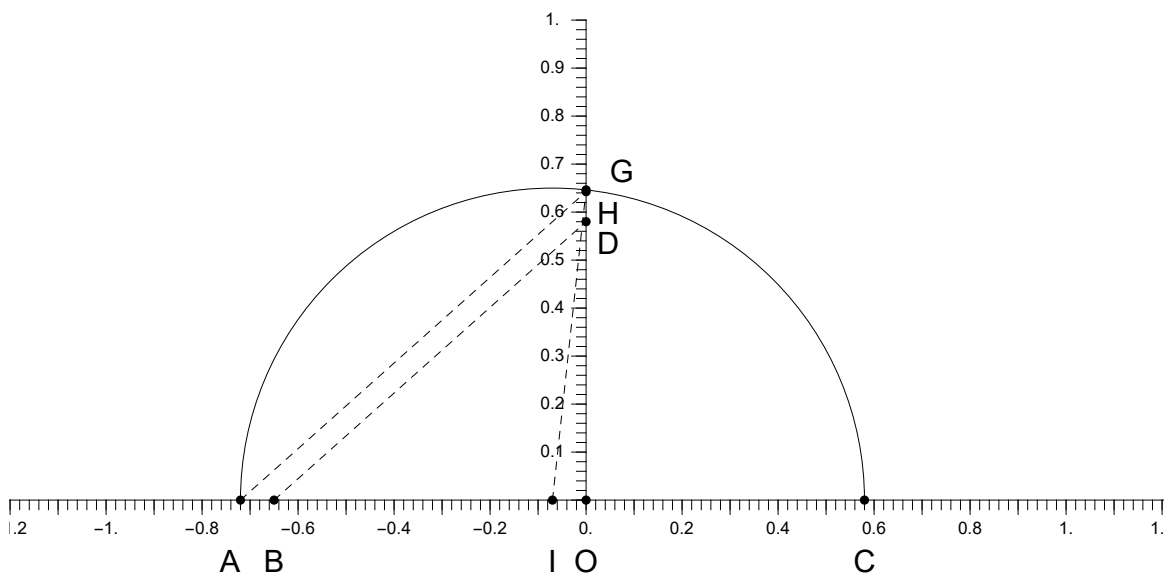


$a= AO $	$b= CO $	$(a+b)/2= IG $	$\sqrt{ab}= OG $	$2ab/(a+b)= OH $
0.78	0.28			

Rešitve:

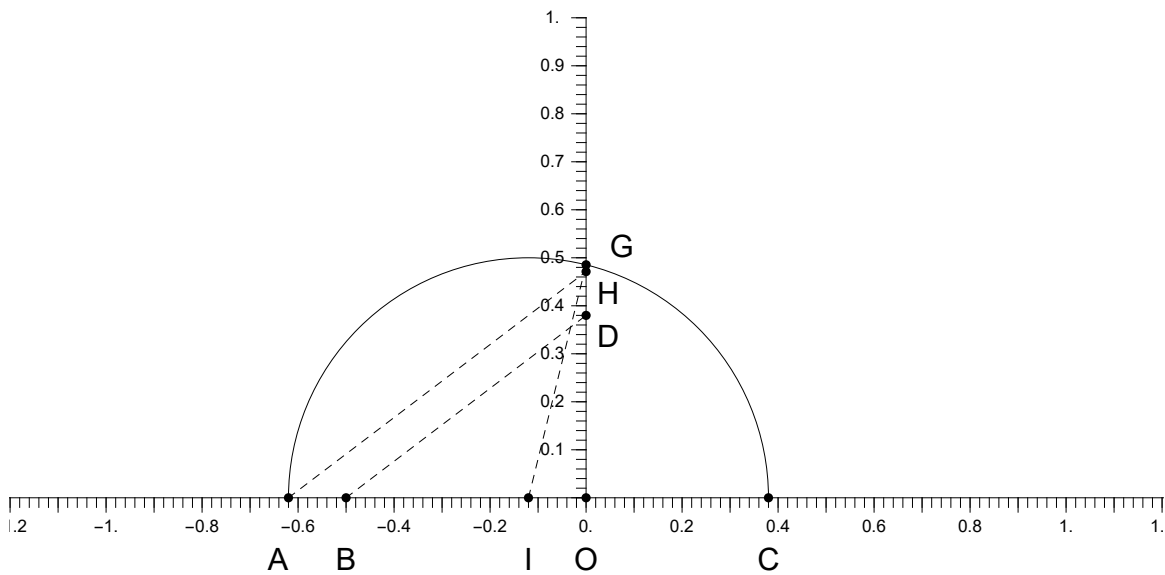


1.



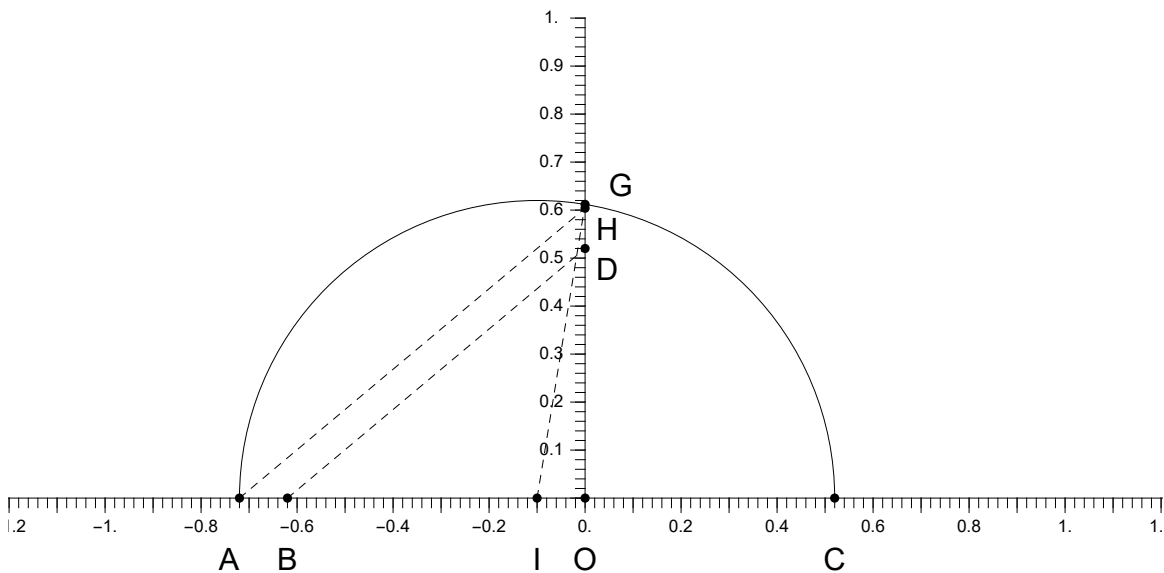
$a= AO $	$b= CO $	$(a+b)/2= IG $	$\sqrt{ab}= OG $	$2ab/(a+b)= OH $
0.72	0.58	0.65	0.65	0.64

2.



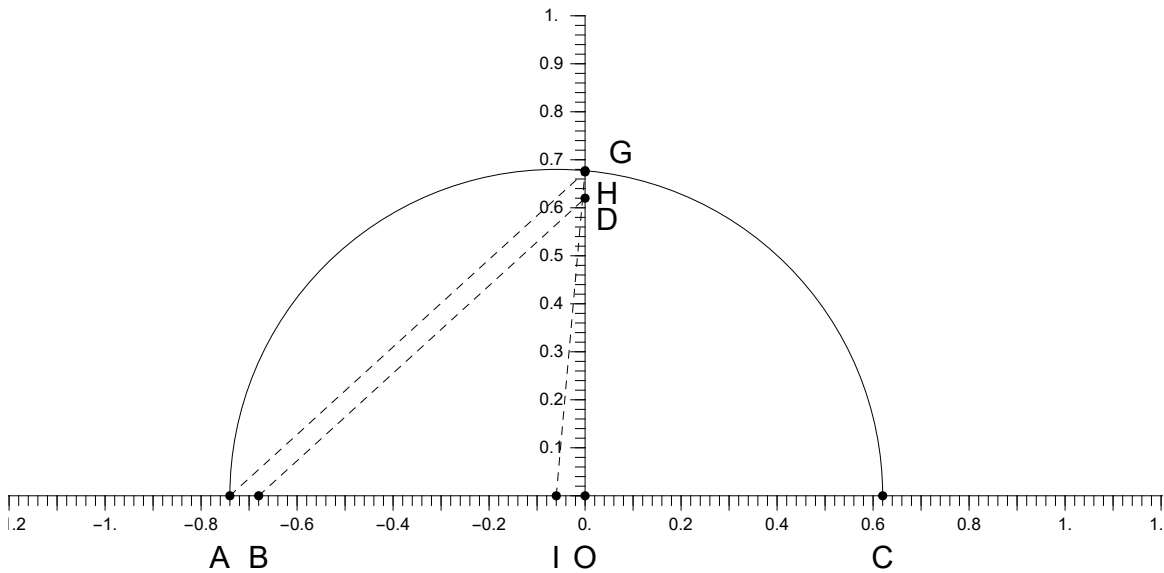
$a= AO $	$b= CO $	$(a+b)/2= IG $	$\sqrt{ab}= OG $	$2ab/(a+b)= OH $
0.62	0.38	0.5	0.49	0.47

3.



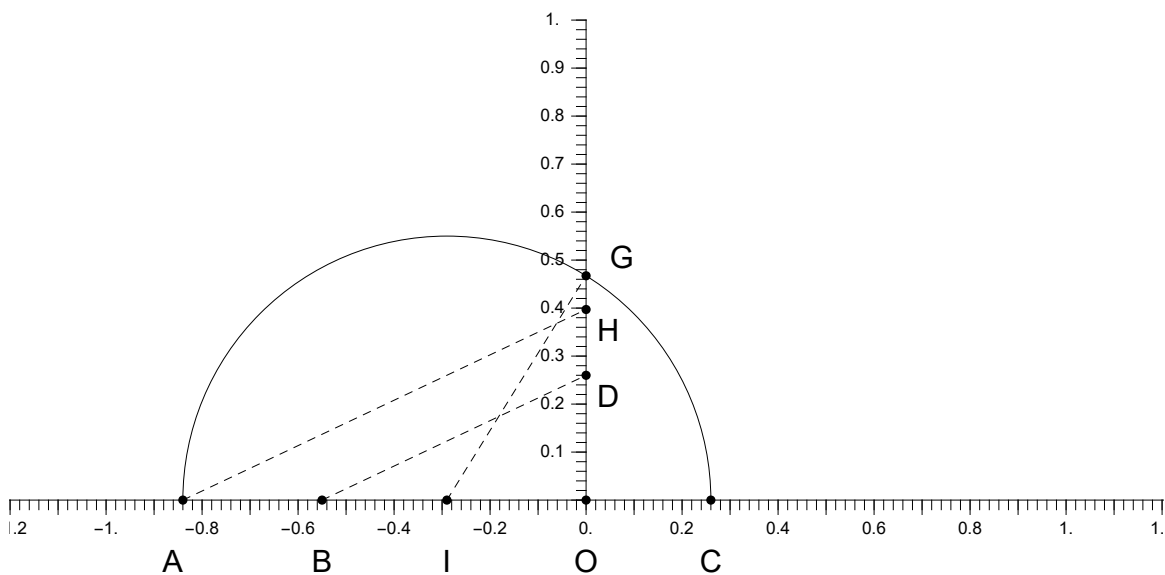
$a= AO $	$b= CO $	$(a+b)/2= IG $	$\sqrt{ab}= OG $	$2ab/(a+b)= OH $
0.72	0.52	0.62	0.61	0.6

4.



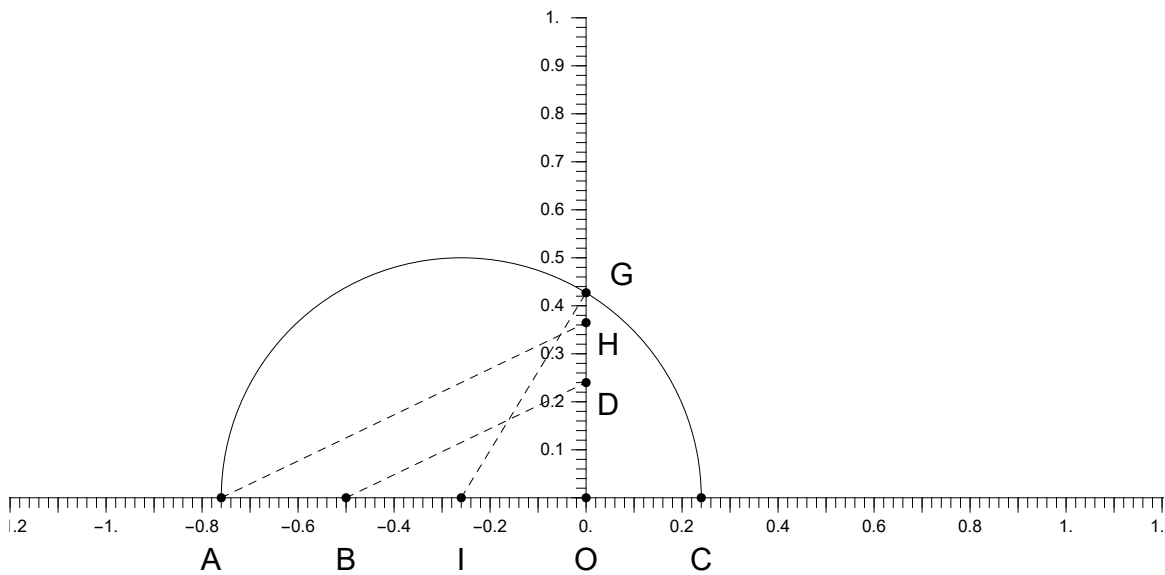
$a= AO $	$b= CO $	$(a+b)/2= IG $	$\sqrt{ab}= OG $	$2ab/(a+b)= OH $
0.74	0.62	0.68	0.68	0.67

5.



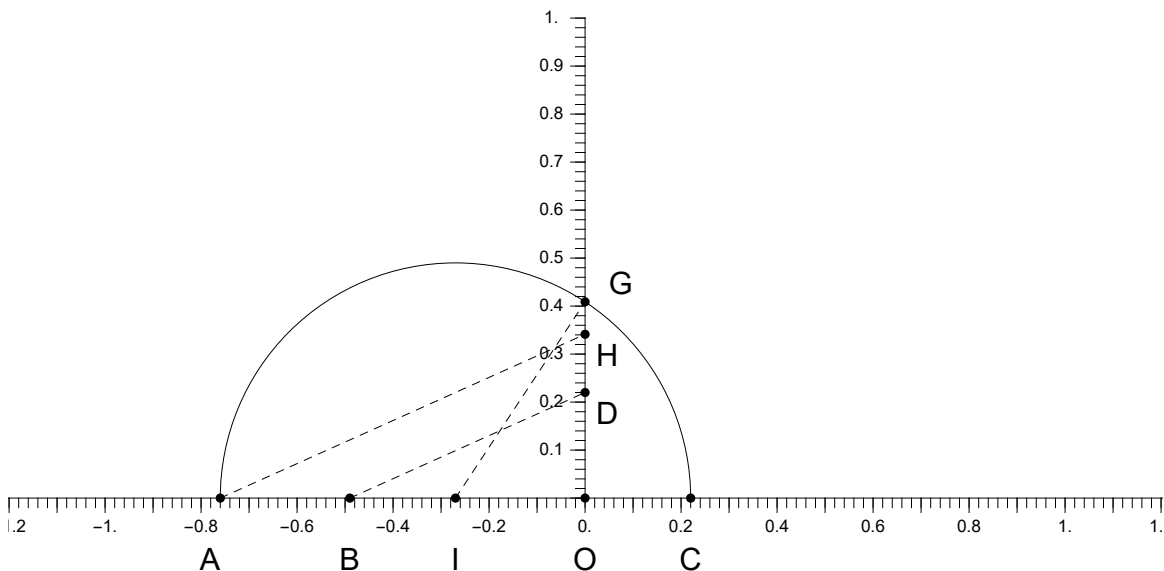
$a= AO $	$b= CO $	$(a+b)/2= IG $	$\sqrt{ab}= OG $	$2ab/(a+b)= OH $
0.84	0.26	0.55	0.47	0.4

6.



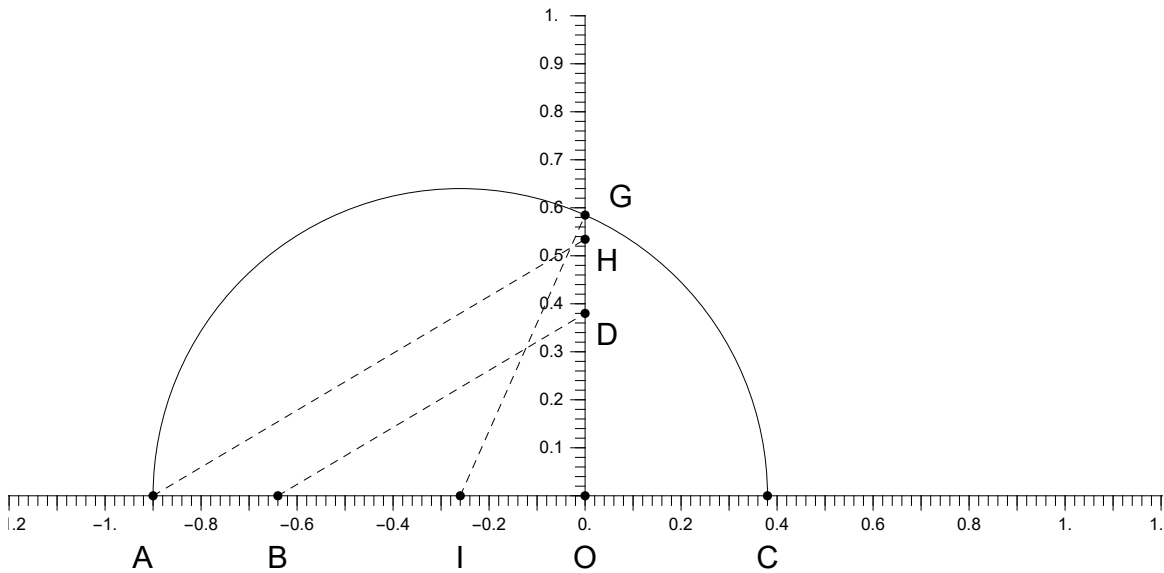
$a= AO $	$b= CO $	$(a+b)/2= IG $	$\sqrt{ab}= OG $	$2ab/(a+b)= OH $
0.76	0.24	0.5	0.43	0.36

7.



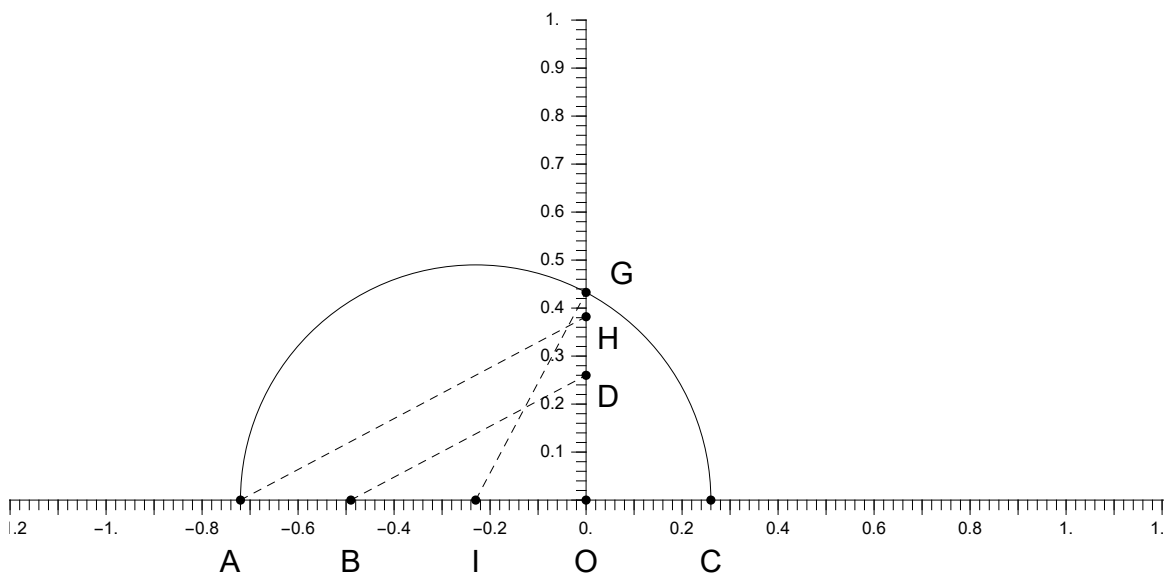
$a= AO $	$b= CO $	$(a+b)/2= IG $	$\sqrt{ab}= OG $	$2ab/(a+b)= OH $
0.76	0.22	0.49	0.41	0.34

8.



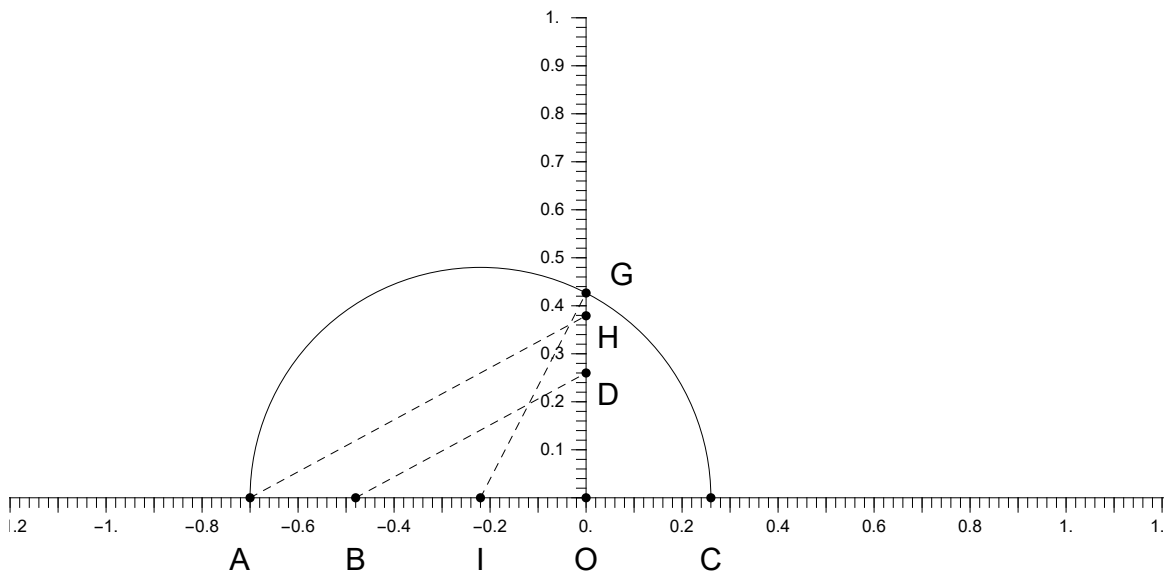
$a= AO $	$b= CO $	$(a+b)/2= IG $	$\sqrt{ab}= OG $	$2ab/(a+b)= OH $
0.9	0.38	0.64	0.58	0.53

9.



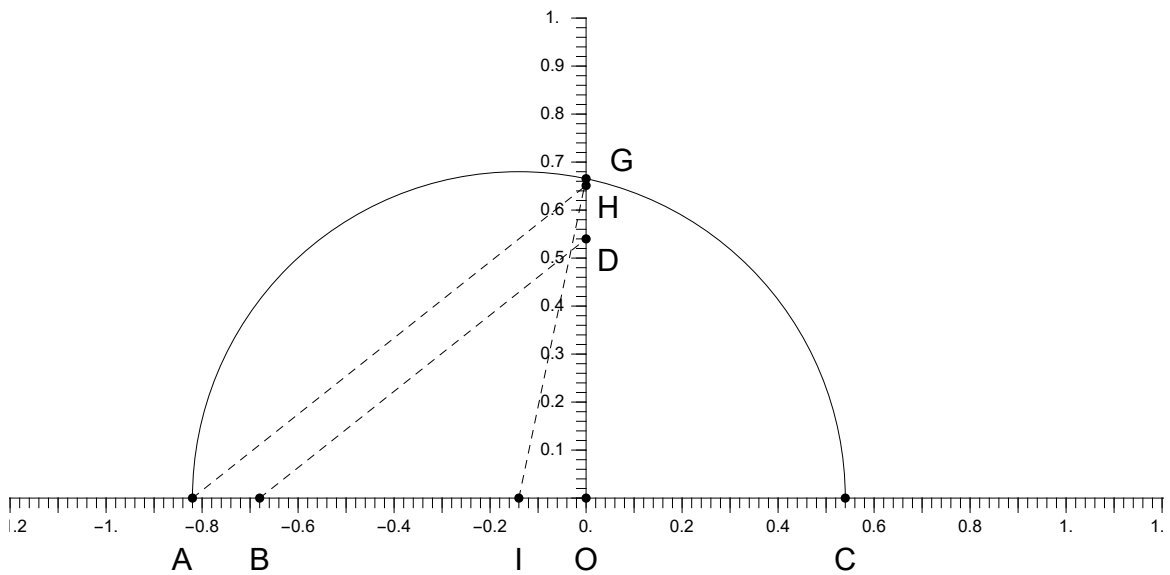
$a= AO $	$b= CO $	$(a+b)/2= IG $	$\sqrt{ab}= OG $	$2ab/(a+b)= OH $
0.72	0.26	0.49	0.43	0.38

10.



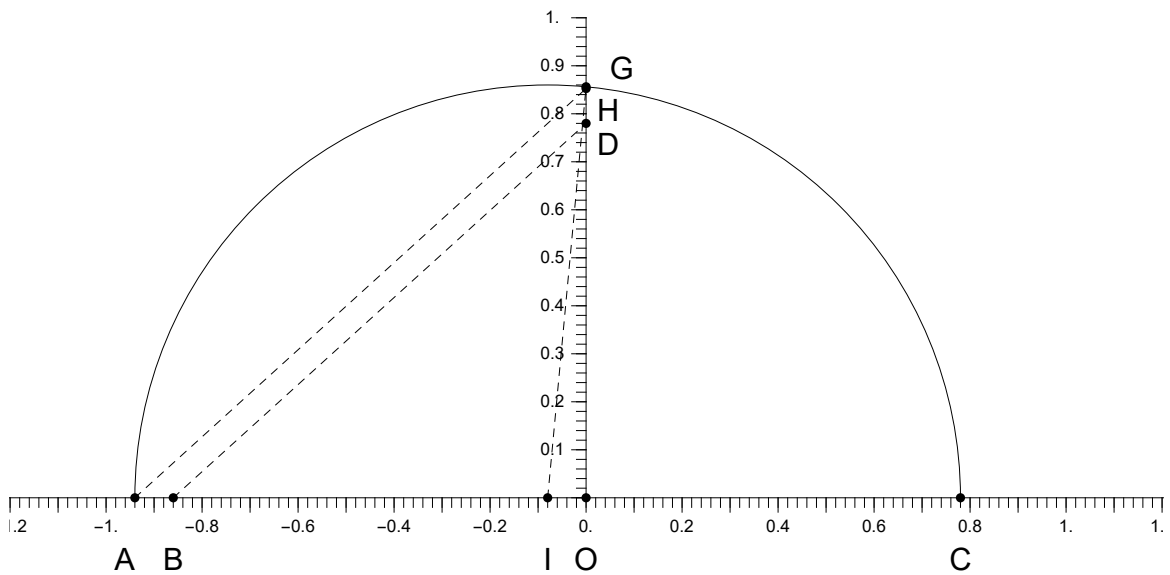
$a= AO $	$b= CO $	$(a+b)/2= IG $	$\sqrt{ab}= OG $	$2ab/(a+b)= OH $
0.7	0.26	0.48	0.43	0.38

11.



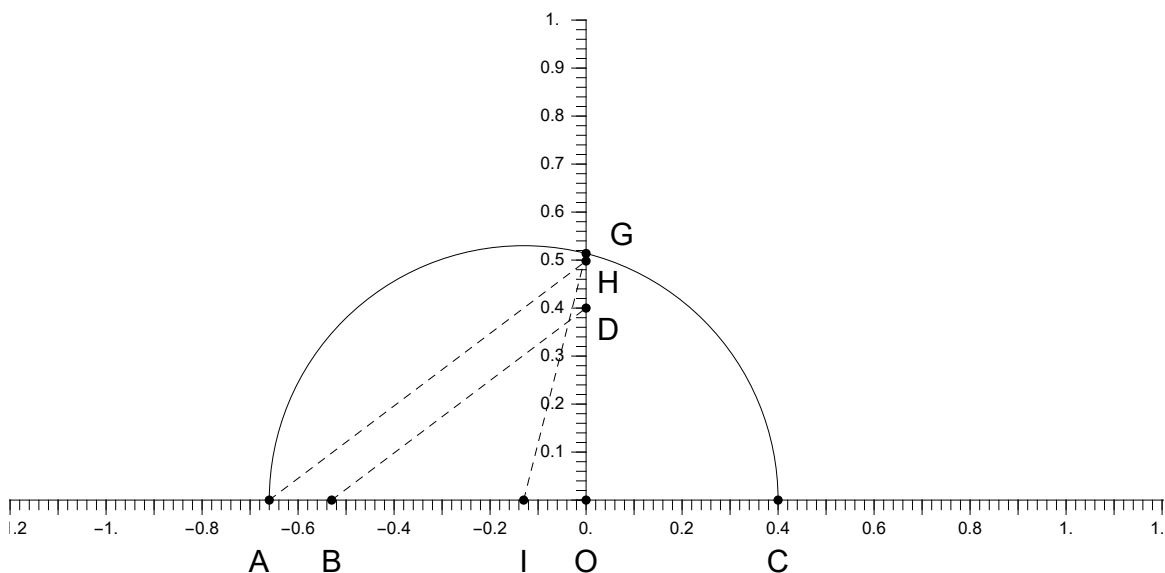
$a= AO $	$b= CO $	$(a+b)/2= IG $	$\sqrt{ab}= OG $	$2ab/(a+b)= OH $
0.82	0.54	0.68	0.67	0.65

12.



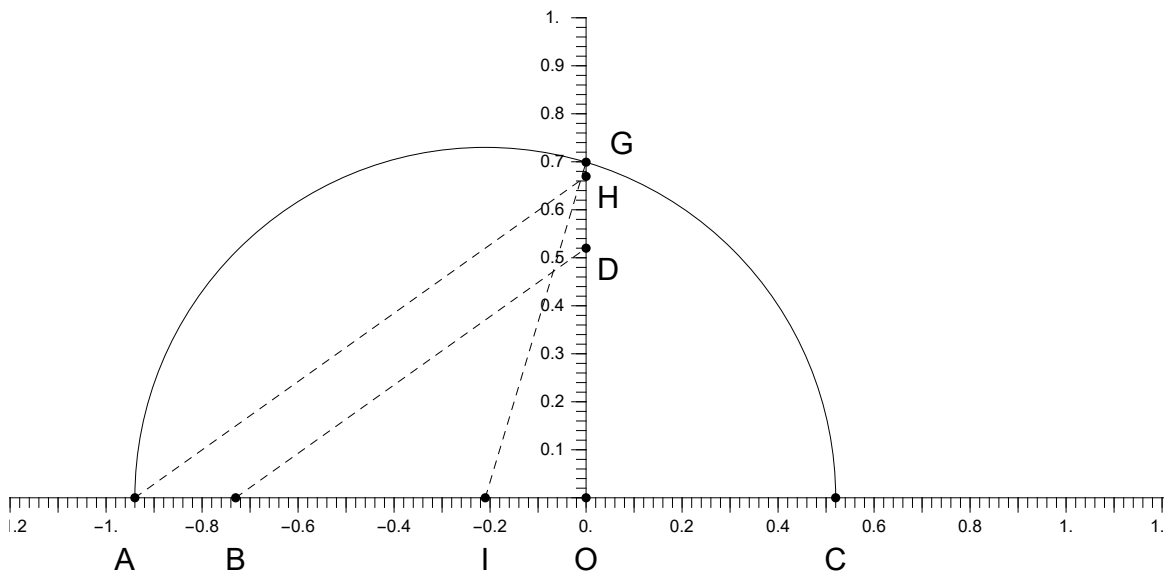
$a= AO $	$b= CO $	$(a+b)/2= IG $	$\sqrt{ab}= OG $	$2ab/(a+b)= OH $
0.94	0.78	0.86	0.86	0.85

13.



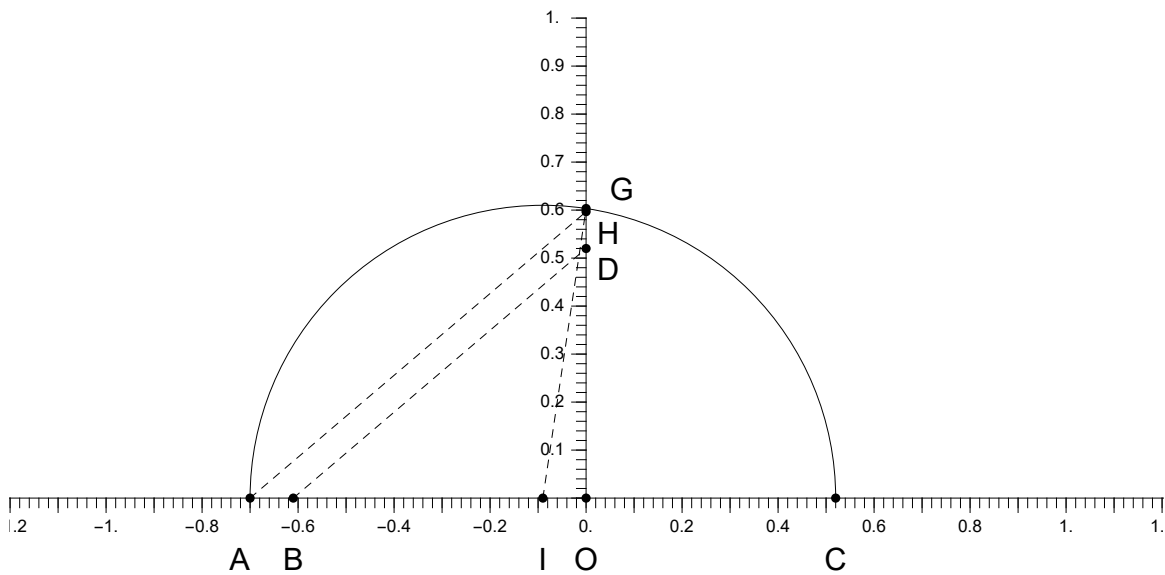
$a= AO $	$b= CO $	$(a+b)/2= IG $	$\sqrt{ab}= OG $	$2ab/(a+b)= OH $
0.66	0.4	0.53	0.51	0.5

14.



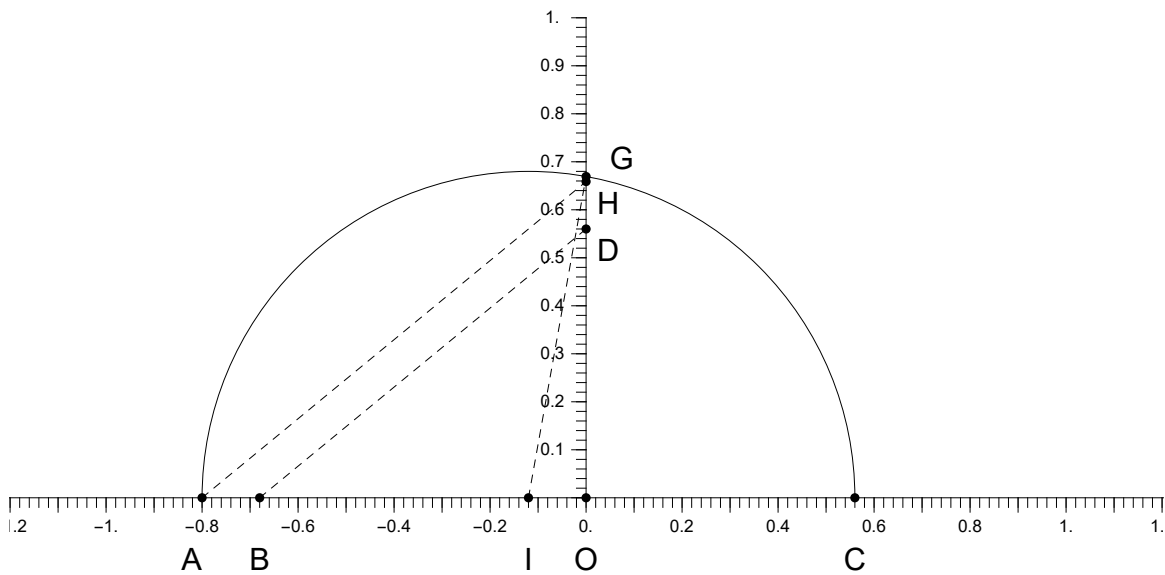
$a= AO $	$b= CO $	$(a+b)/2= IG $	$\sqrt{ab}= OG $	$2ab/(a+b)= OH $
0.94	0.52	0.73	0.7	0.67

15.



$a= AO $	$b= CO $	$(a+b)/2= IG $	$\sqrt{ab}= OG $	$2ab/(a+b)= OH $
0.7	0.52	0.61	0.6	0.6

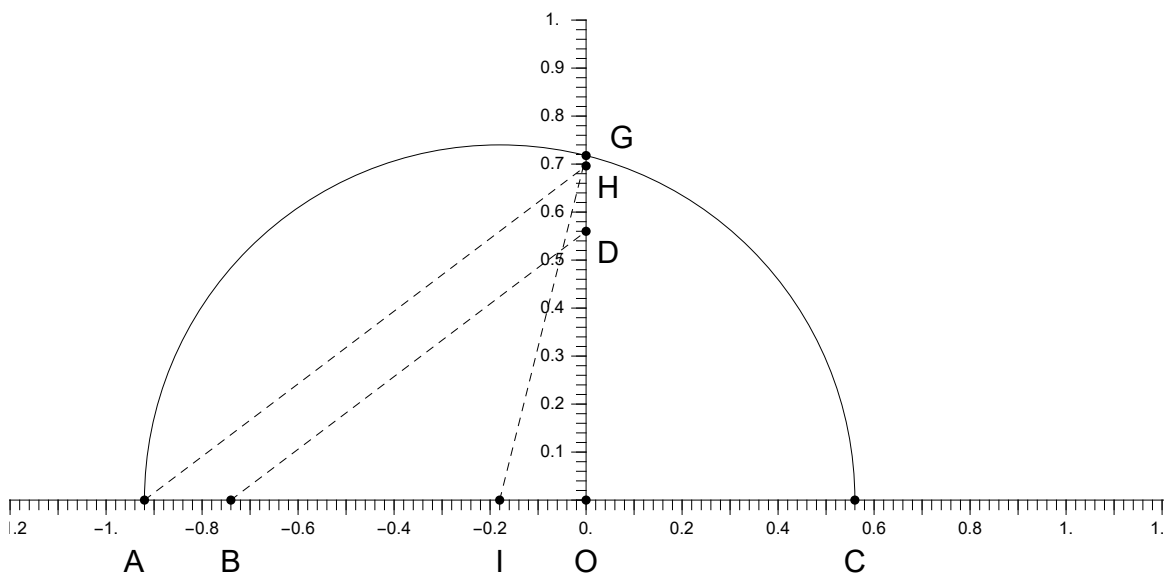
16.



$a= AO $	$b= CO $	$(a+b)/2= IG $	$\sqrt{ab}= OG $	$2ab/(a+b)= OH $
0.8	0.56	0.68	0.67	0.66

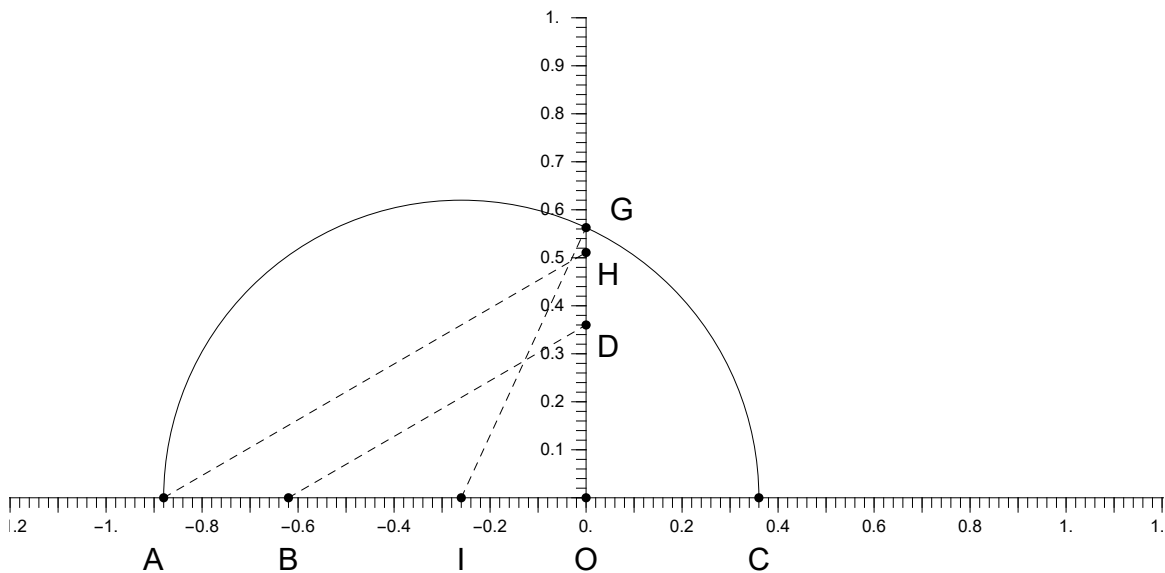


17.



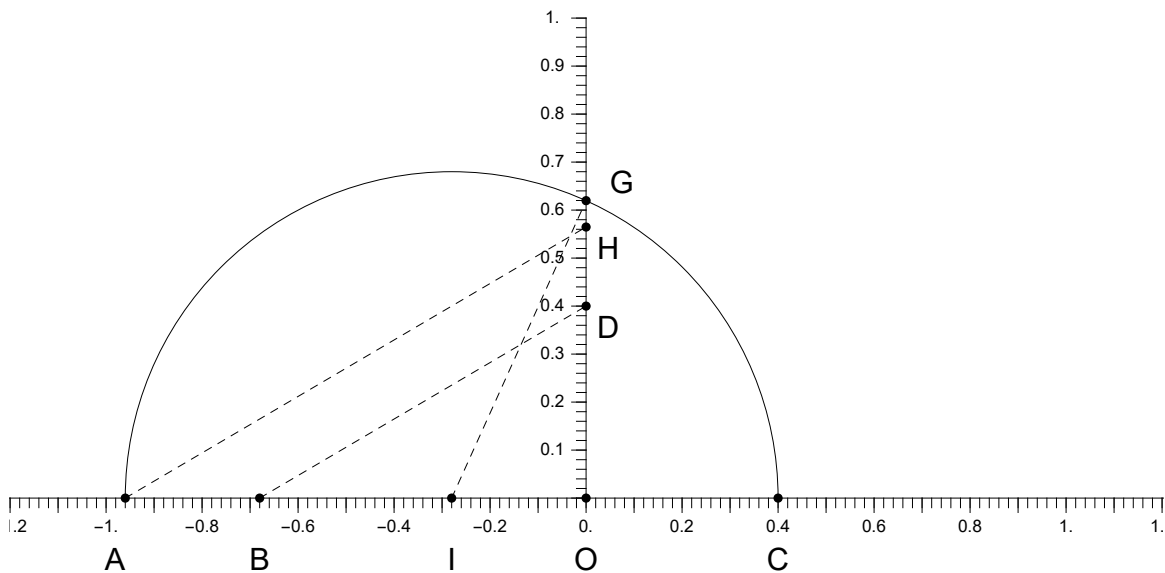
$a= AO $	$b= CO $	$(a+b)/2= IG $	$\sqrt{ab}= OG $	$2ab/(a+b)= OH $
0.92	0.56	0.74	0.72	0.7

18.



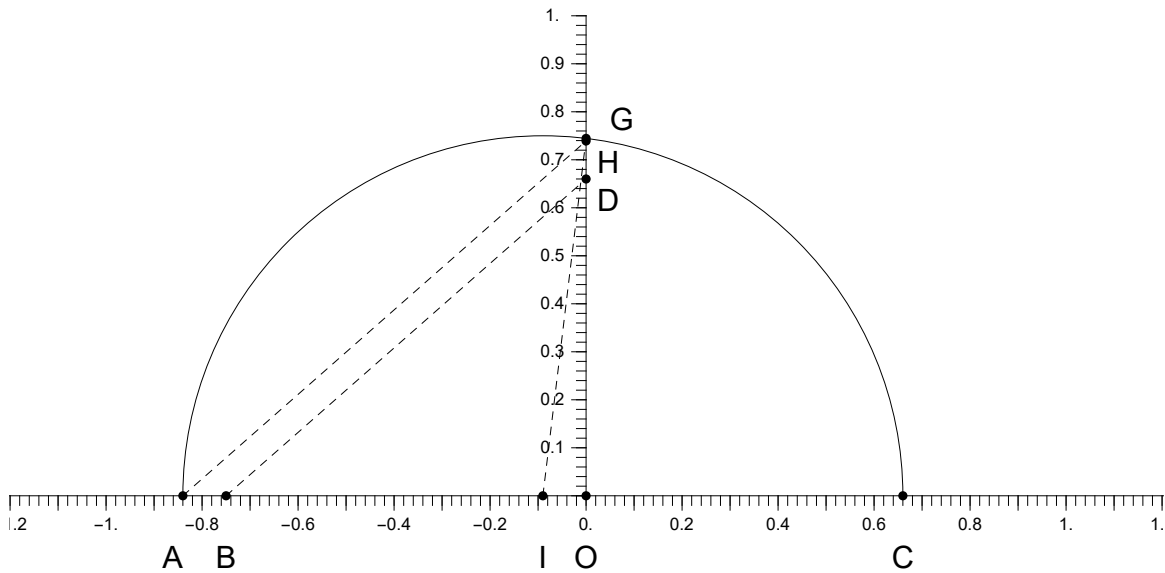
$a= AO $	$b= CO $	$(a+b)/2= IG $	$\sqrt{ab}= OG $	$2ab/(a+b)= OH $
0.88	0.36	0.62	0.56	0.51

19.



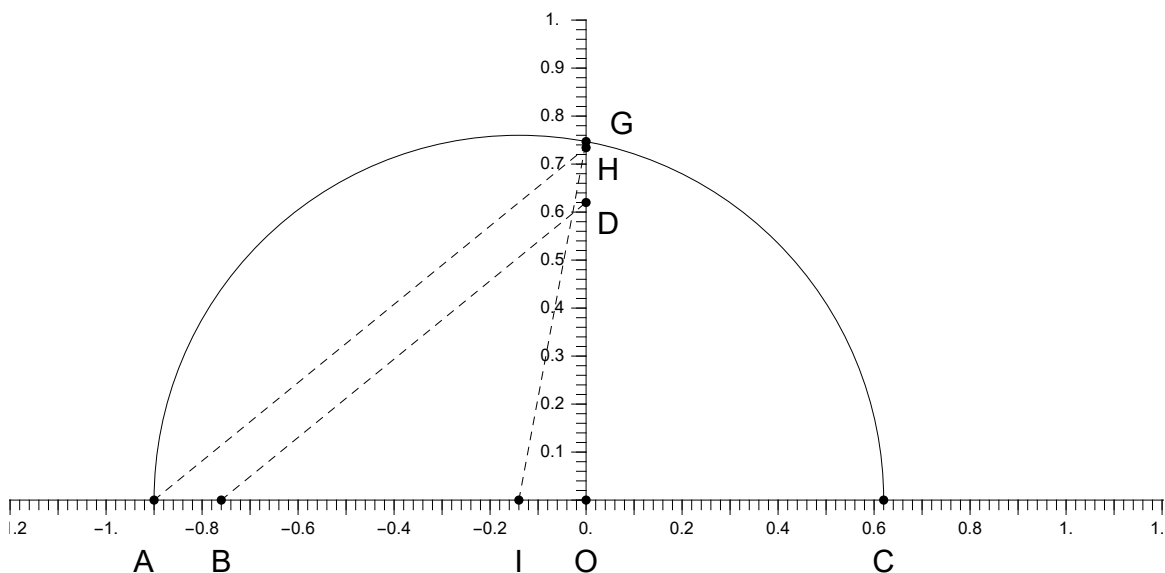
$a= AO $	$b= CO $	$(a+b)/2= IG $	$\sqrt{ab}= OG $	$2ab/(a+b)= OH $
0.96	0.4	0.68	0.62	0.56

20.



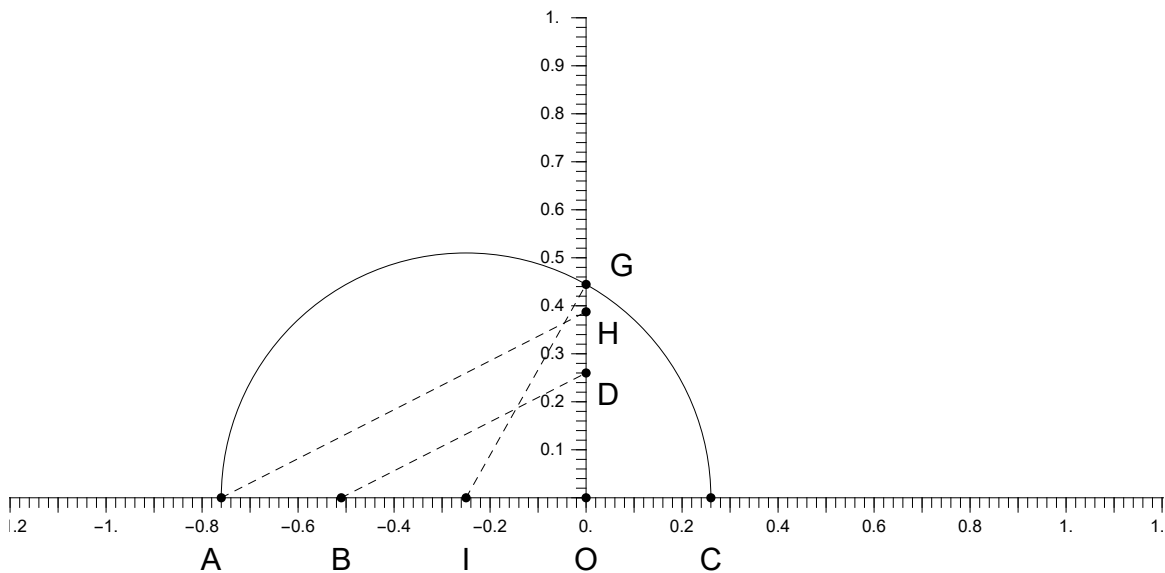
$a= AO $	$b= CO $	$(a+b)/2= IG $	$\sqrt{ab}= OG $	$2ab/(a+b)= OH $
0.84	0.66	0.75	0.74	0.74

21.



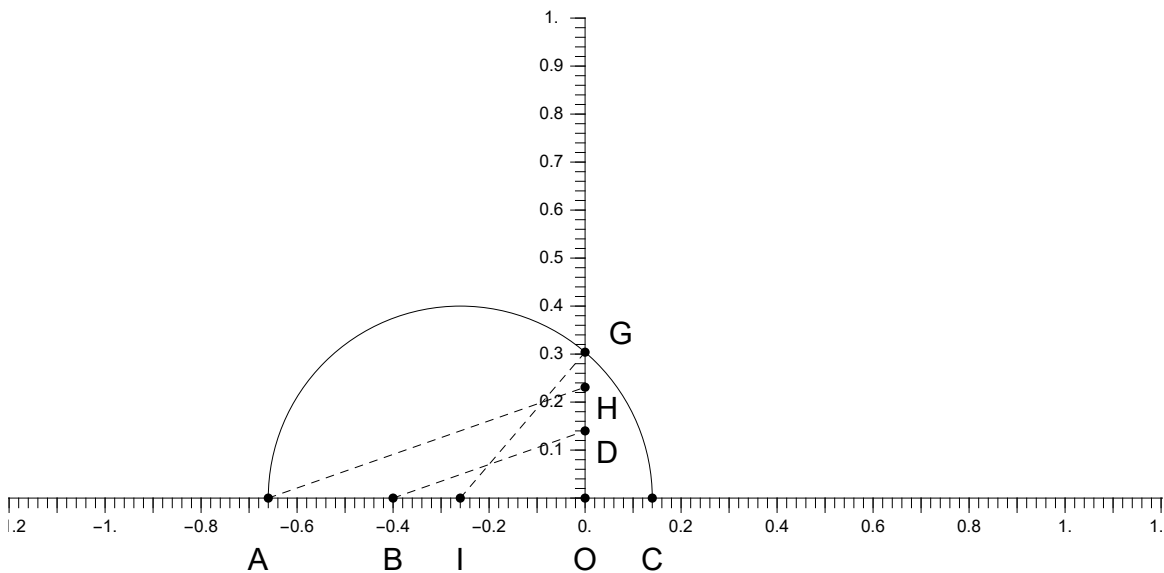
$a= AO $	$b= CO $	$(a+b)/2= IG $	$\sqrt{ab}= OG $	$2ab/(a+b)= OH $
0.9	0.62	0.76	0.75	0.73

22.



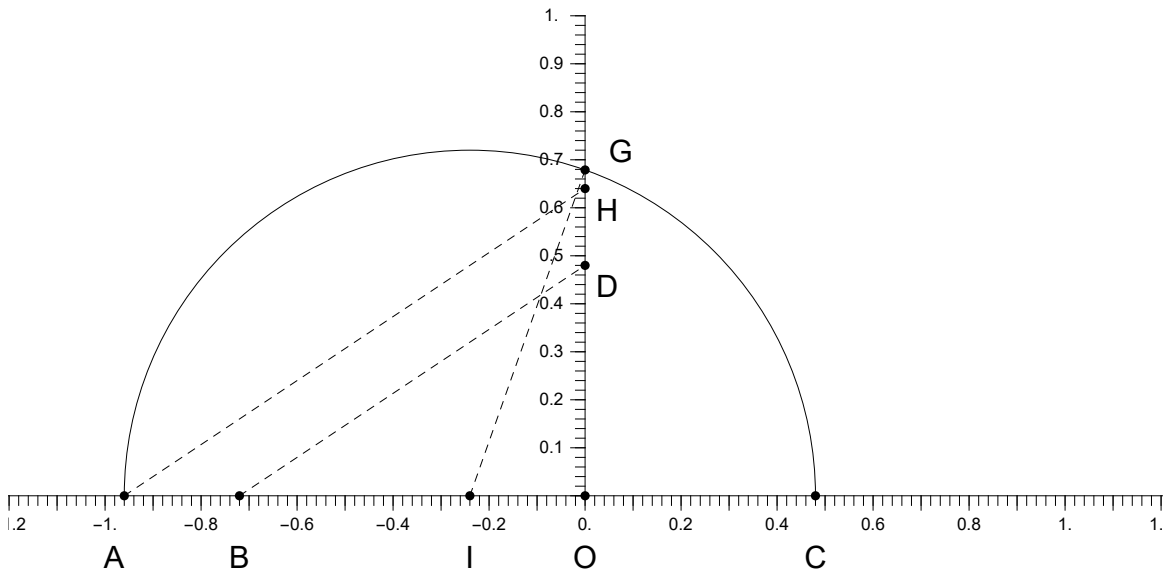
$a= AO $	$b= CO $	$(a+b)/2= IG $	$\sqrt{ab}= OG $	$2ab/(a+b)= OH $
0.76	0.26	0.51	0.44	0.39

23.



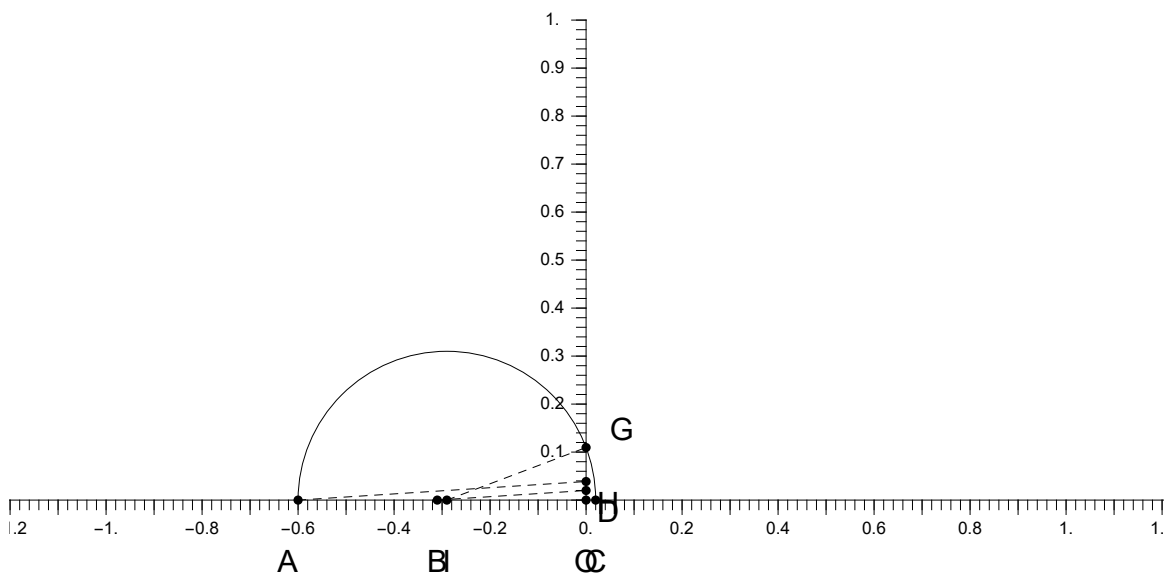
$a= AO $	$b= CO $	$(a+b)/2= IG $	$\sqrt{ab}= OG $	$2ab/(a+b)= OH $
0.66	0.14	0.4	0.3	0.23

24.



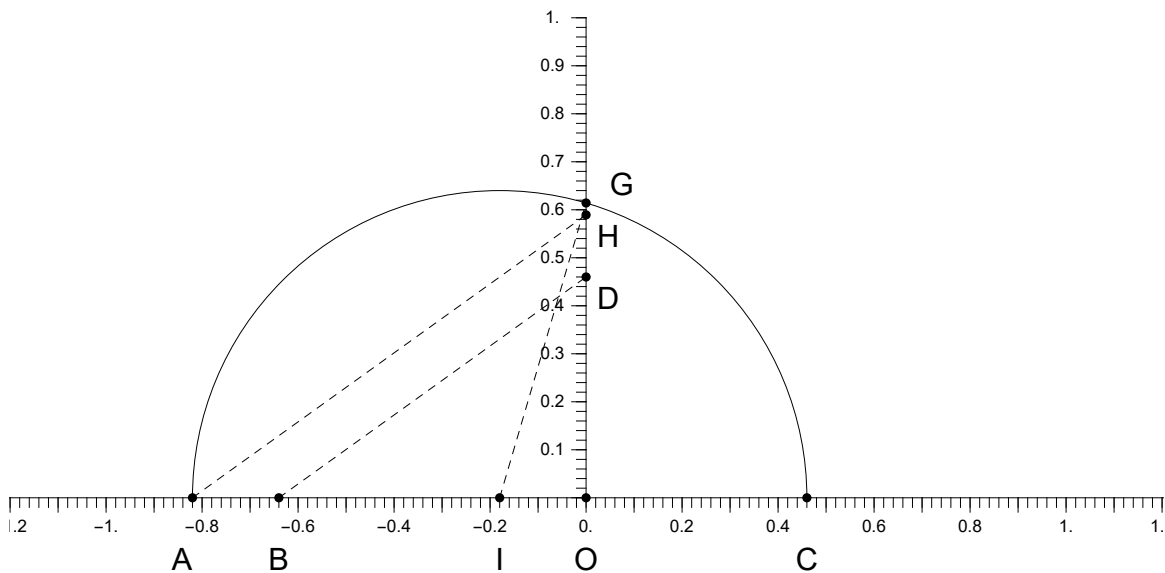
$a= AO $	$b= CO $	$(a+b)/2= IG $	$\sqrt{ab}= OG $	$2ab/(a+b)= OH $
0.96	0.48	0.72	0.68	0.64

25.



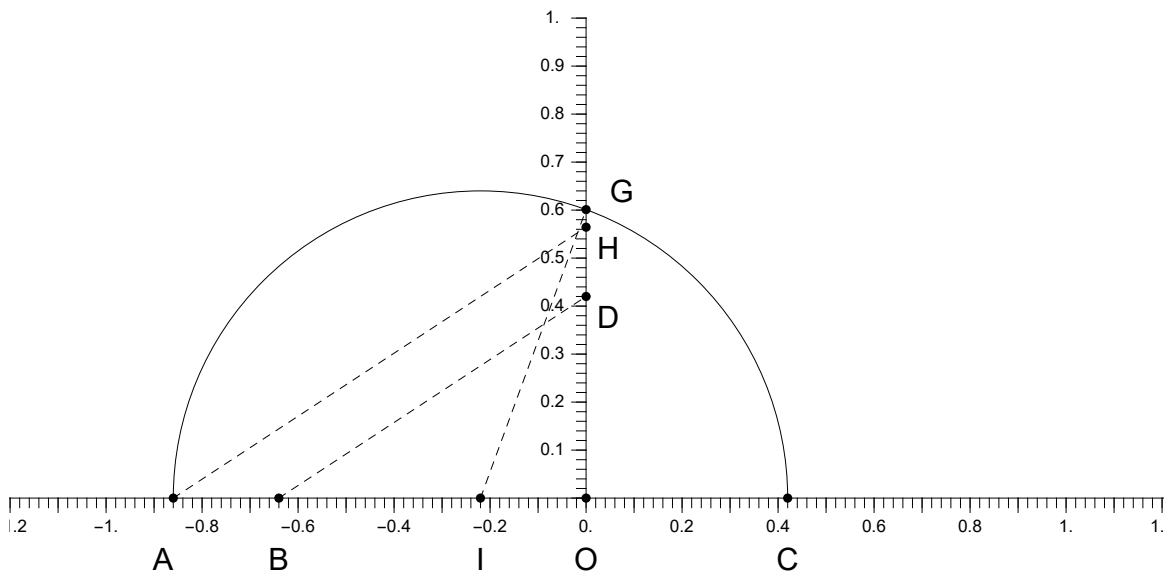
$a= AO $	$b= CO $	$(a+b)/2= IG $	$\sqrt{ab}= OG $	$2ab/(a+b)= OH $
0.6	0.02	0.31	0.11	0.04

26.



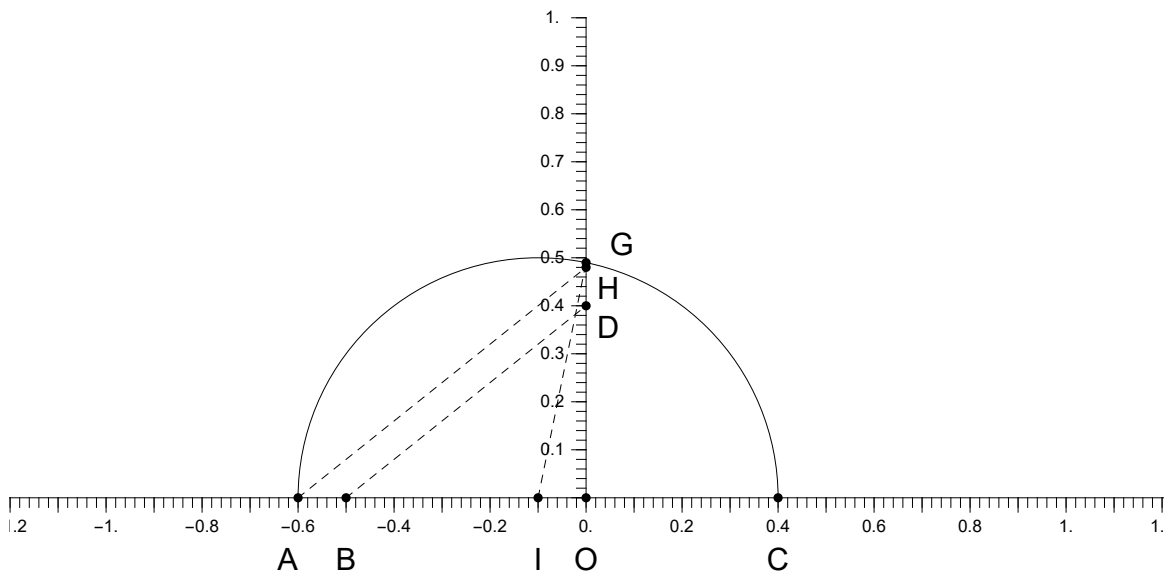
$a= AO $	$b= CO $	$(a+b)/2= IG $	$\sqrt{ab}= OG $	$2ab/(a+b)= OH $
0.82	0.46	0.64	0.61	0.59

27.



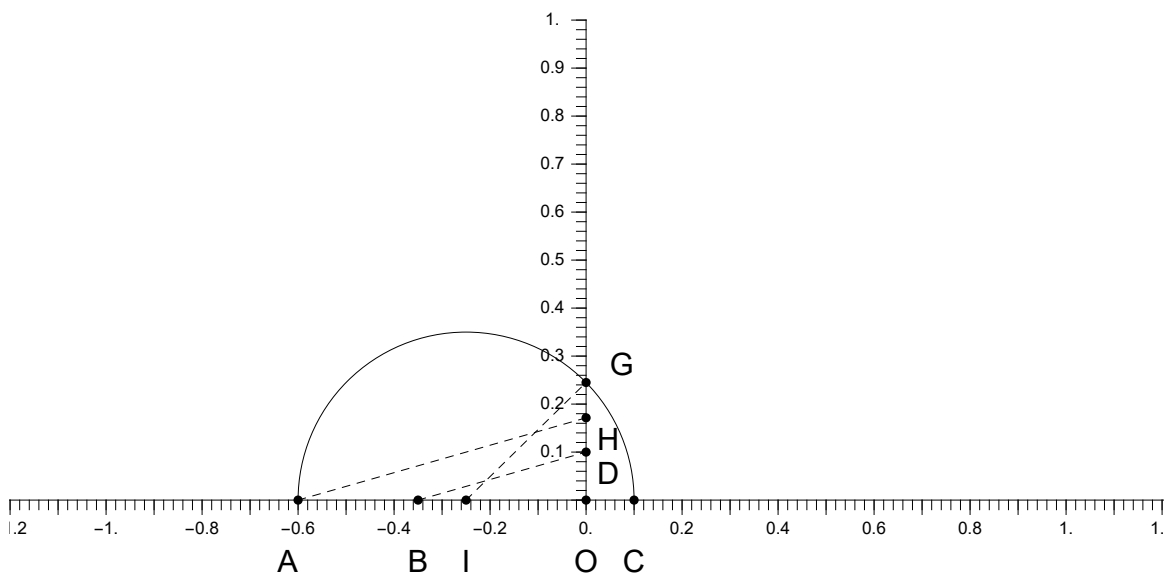
$a= AO $	$b= CO $	$(a+b)/2= IG $	$\sqrt{ab}= OG $	$2ab/(a+b)= OH $
0.86	0.42	0.64	0.6	0.56

28.



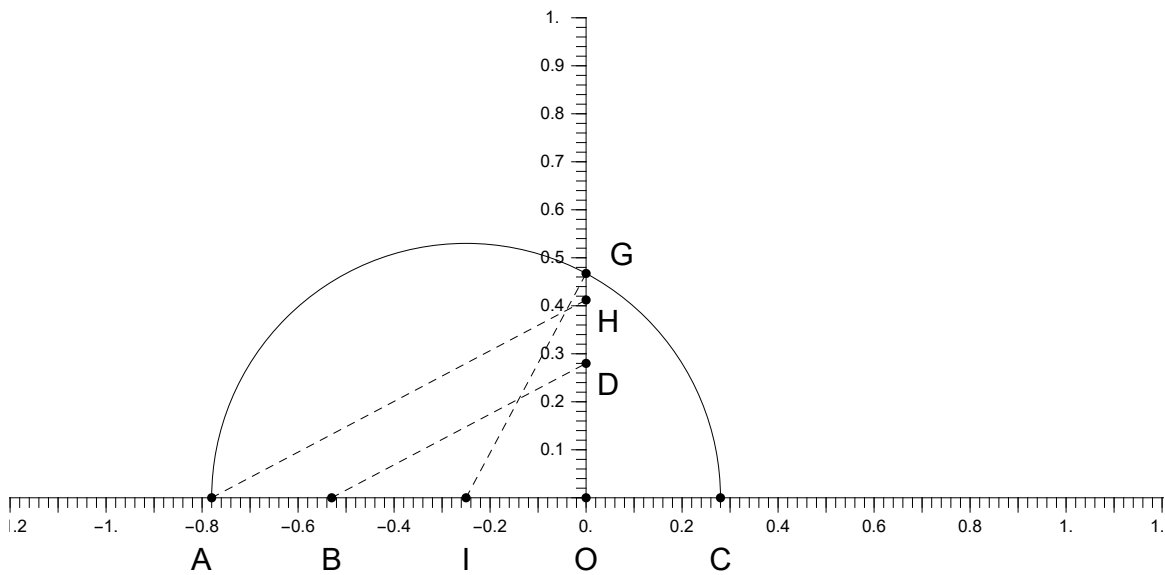
$a= AO $	$b= CO $	$(a+b)/2= IG $	$\sqrt{ab}= OG $	$2ab/(a+b)= OH $
0.6	0.4	0.5	0.49	0.48

29.



$a= AO $	$b= CO $	$(a+b)/2= IG $	$\sqrt{ab}= OG $	$2ab/(a+b)= OH $
0.6	0.1	0.35	0.24	0.17

30.



$a= AO $	$b= CO $	$(a+b)/2= IG $	$\sqrt{ab}= OG $	$2ab/(a+b)= OH $
0.78	0.28	0.53	0.47	0.41