Almada Negreiros

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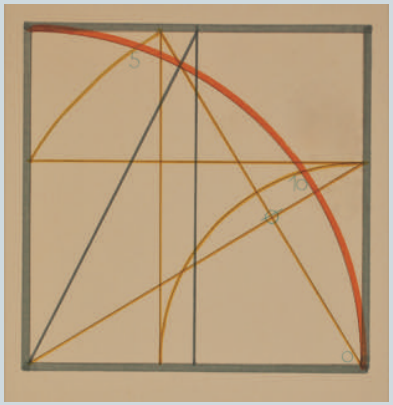
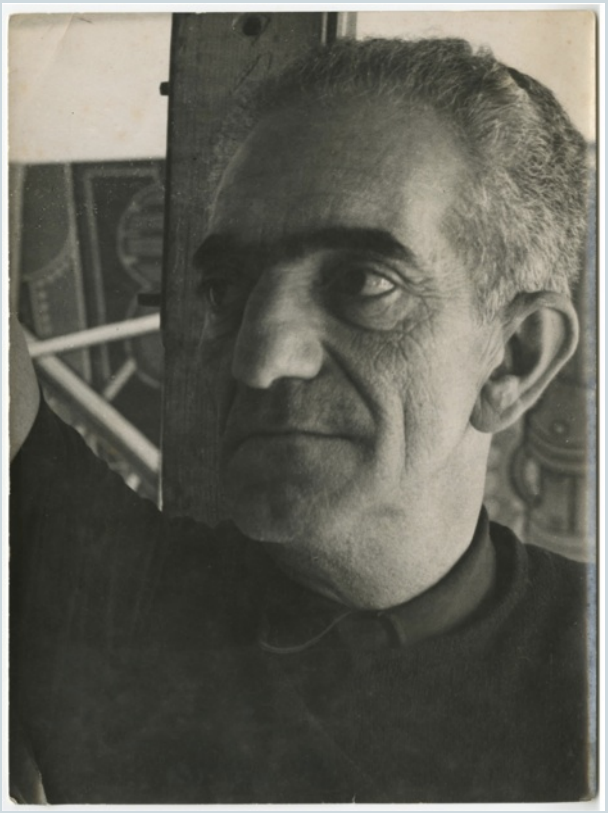


S Tomé e Príncipe, 1893 – Lisboa, 1970

Futurist Conference, 1917



In the 1940s

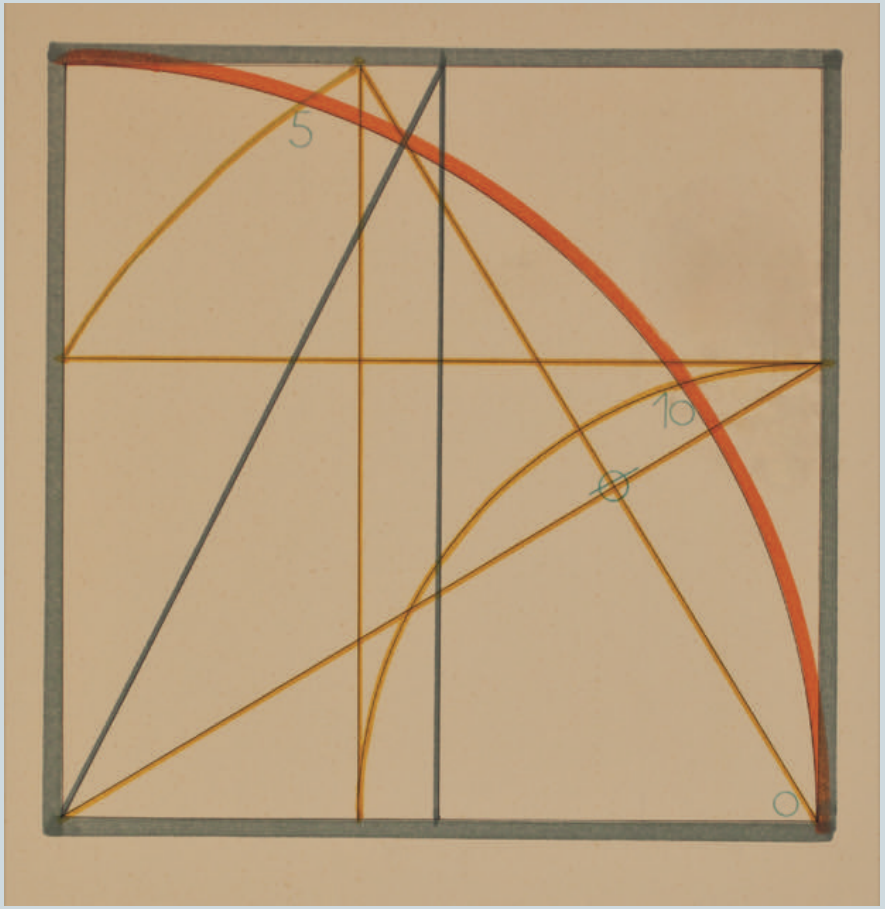
Famous works

Mural at the Maritime Station of Rocha, 1948

Portrait of Fernando Pessoa, 1954

A Geometric Canon

Language of the square



Language of the square

ac: error 0,001%

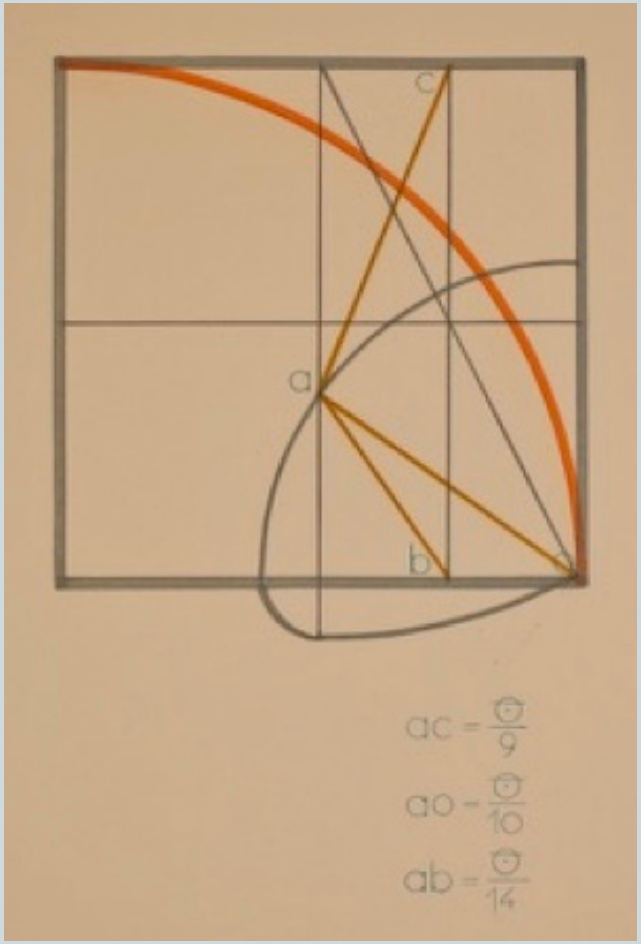
$$ac = \frac{\overline{O}}{9}$$

ao: exact

$$ao = \frac{\overline{O}}{10}$$

ab: error 1%

$$ab = \frac{\overline{O}}{14}$$



Almada Negreiros and the nonagon
Recreational Mathematics Magazine
Associação Ludus

Gauss-Wantzel's Theorem

It is possible to divide the circle in n equal parts with straightedge and compass if and only if

$$n = 2^k p_1 \dots p_t$$

where $p_1, \dots, p_t$ are distinct Fermat primes.

A Fermat prime is a prime of the form 2^m+1, where m is a power of 2.

Known Fermat primes: 3, 5, 17, 257 and 65537.

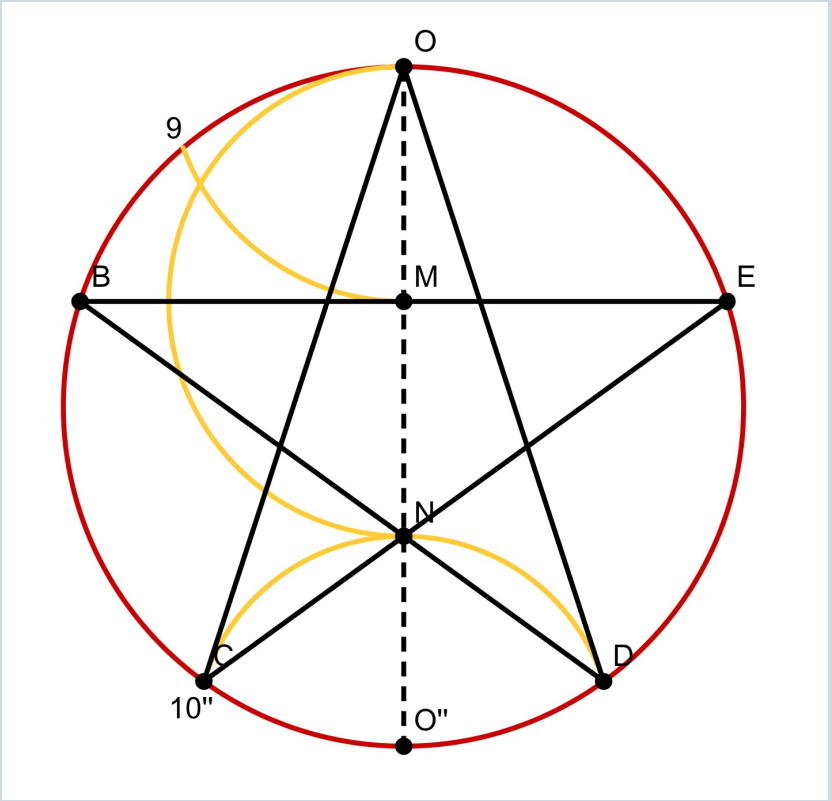
Regular polygons with 7, 9, 14 sides are nor constructible.

Começar

Mural, 1968/69. Fundação Calouste Gulbenkian, Lisboa

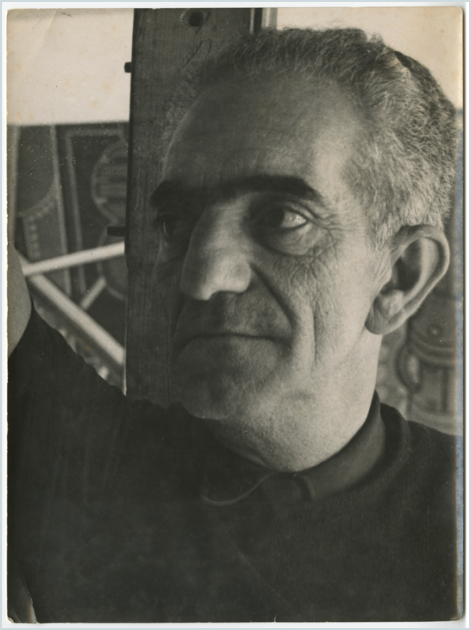
Pentalpha

Error in O/9: 1%



2r = 2 O/9 + O/10

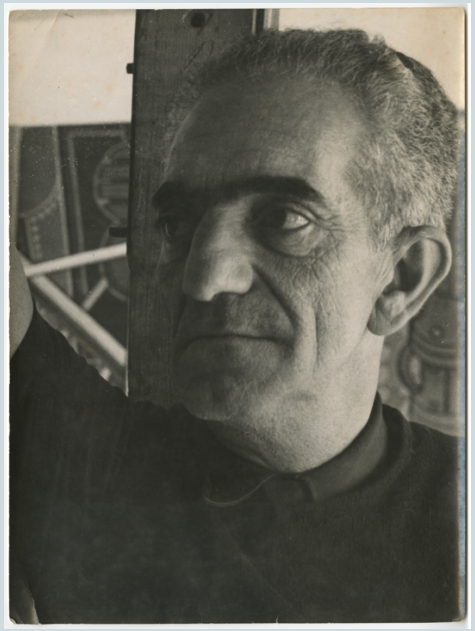
More on this

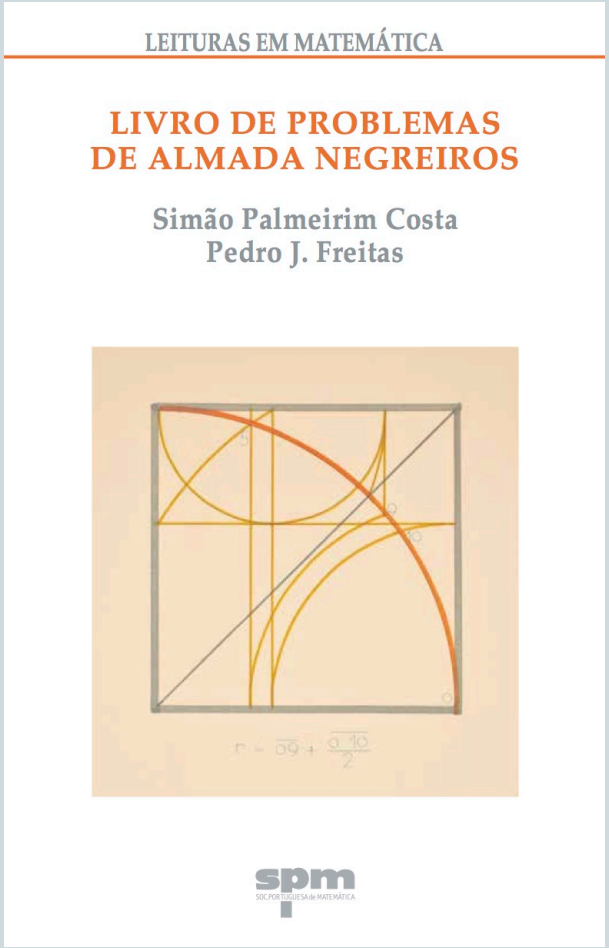


• *Almada and the Geometric Canon*, Journal of Mathematics and the Arts (2015)

• *Almada Negreiros and the nonagon,* Recreational Mathematics Magazine (2015)

More on this

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LIVRO DE PROBLEMAS
DE ALMADA NEGREIROS
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