



FUNDAÇÃO
CALOUSTE
GULBENKIAN

Lisbon,
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2011

Auditorium 3

Seja $n = p_1^{a_1} \dots p_r^{a_r} \in \mathbb{N}$ com p_1, \dots, p_r primos distintos e $a_1, \dots, a_r \in \mathbb{N}$.
Então

a) $\tau(n) = \prod_{k=1}^r (a_k + 1)$

b) $\sigma(n) = \prod_{k=1}^r \frac{p_k^{a_k+1} - 1}{p_k - 1}$

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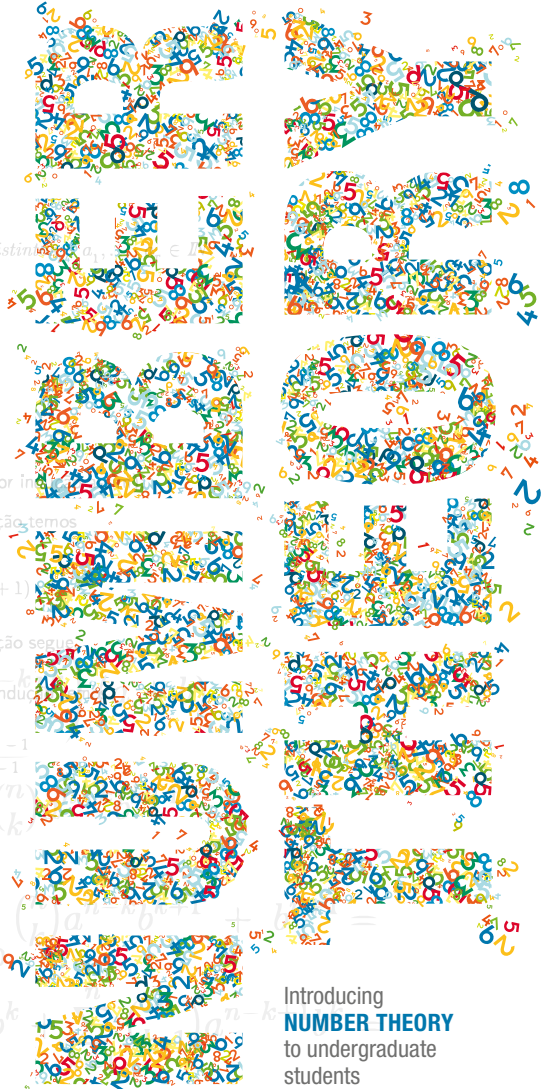
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The Gulbenkian Foundation
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from outside Portugal
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Introducing
NUMBER THEORY
to undergraduate
students

SUMMER SCHOOL
NOVOS TALENTOS EM
MATEMÁTICA

$$(a+b)^{n+1} = \sum_{k=0}^{n+1} \binom{n+1}{k} a^{n+1-k} b^k$$

For applications and more information visit

www.math.ist.utl.pt/talentos/school2011