

# Vocabulario básico del inglés larousse pdf

Complex analysis exercises solutions pdf

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There are no solutions as there should be since we are finding the roots of a degree n polynomial in the algebraically closed field of complex numbers. The equation  $|z - i| = 0$  does not have any solution because  $|z - i|$  is a distance from the point  $z$  to the origin. Give an example to show that, in general,  $\arg(z_1 z_2) \neq \arg(z_1) + \arg(z_2)$  (c.f. Exercise 1). And clearly a distance is always non-negative.

Let  $z = x + iy$  and we have  $|z - 1| = \sqrt{x^2 + (y-1)^2}$ . Squaring both sides, we get  $(x-1)^2 + (y-1)^2 = 1$ .

Exercise Let  $w = re^{i\theta}$  be a complex number such that

 Difficulté Très facile

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