


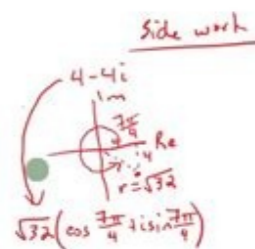
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Rectangular to polar form in matlab

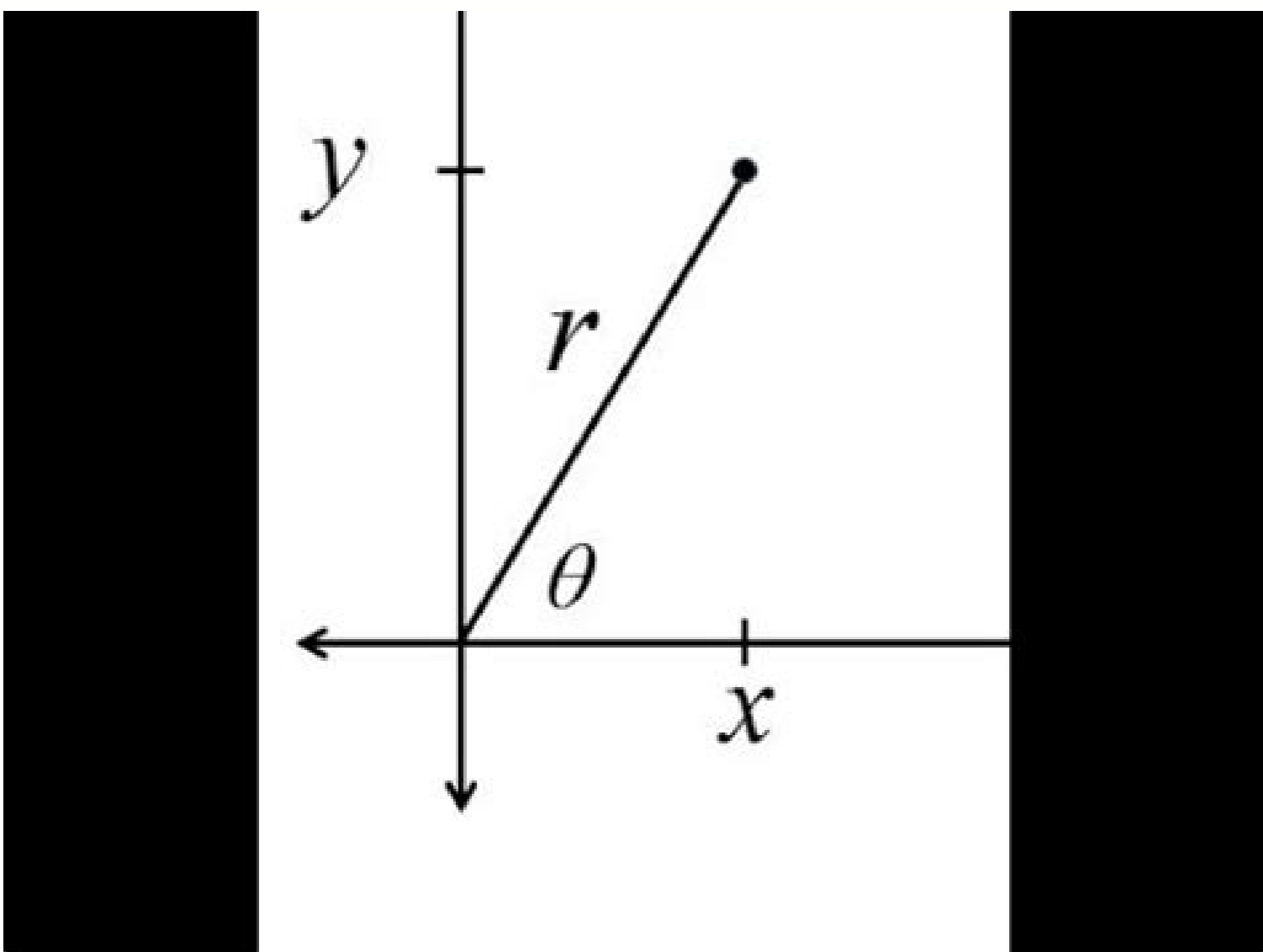
Example: Convert each number to polar form. Then multiply. Write your answer in polar form.

$(4 - 4i) \cdot i$



Operations with Complex Numbers:

- $a + bi$ rectangular
- $r(\cos(\theta) + i\sin(\theta))$ polar
- $(a_1 + bi_1)(a_2 + bi_2)$ Distribute
- $\frac{a_1 + bi_1}{a_2 + bi_2}$ Multiply by conjugate
- $(a_1 + bi_1)^n$ Expand
- $i = i, i^2 = -1, i^3 = -i, i^4 = 1$
- $x^2 \cdot x^3 = x^{2+3} = x^5$

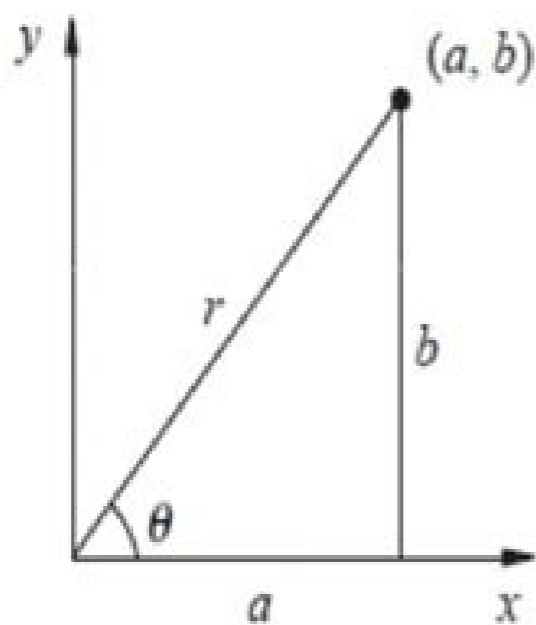


GEOMETRICAL REPRESENTATION OF COMPLEX NUMBERS

If $z = a + ib$, is a complex number than in *cartesian form* it is as good as (a, b)

For *polar form*, let us take $a = r \cos \theta$ and $b = r \sin \theta$

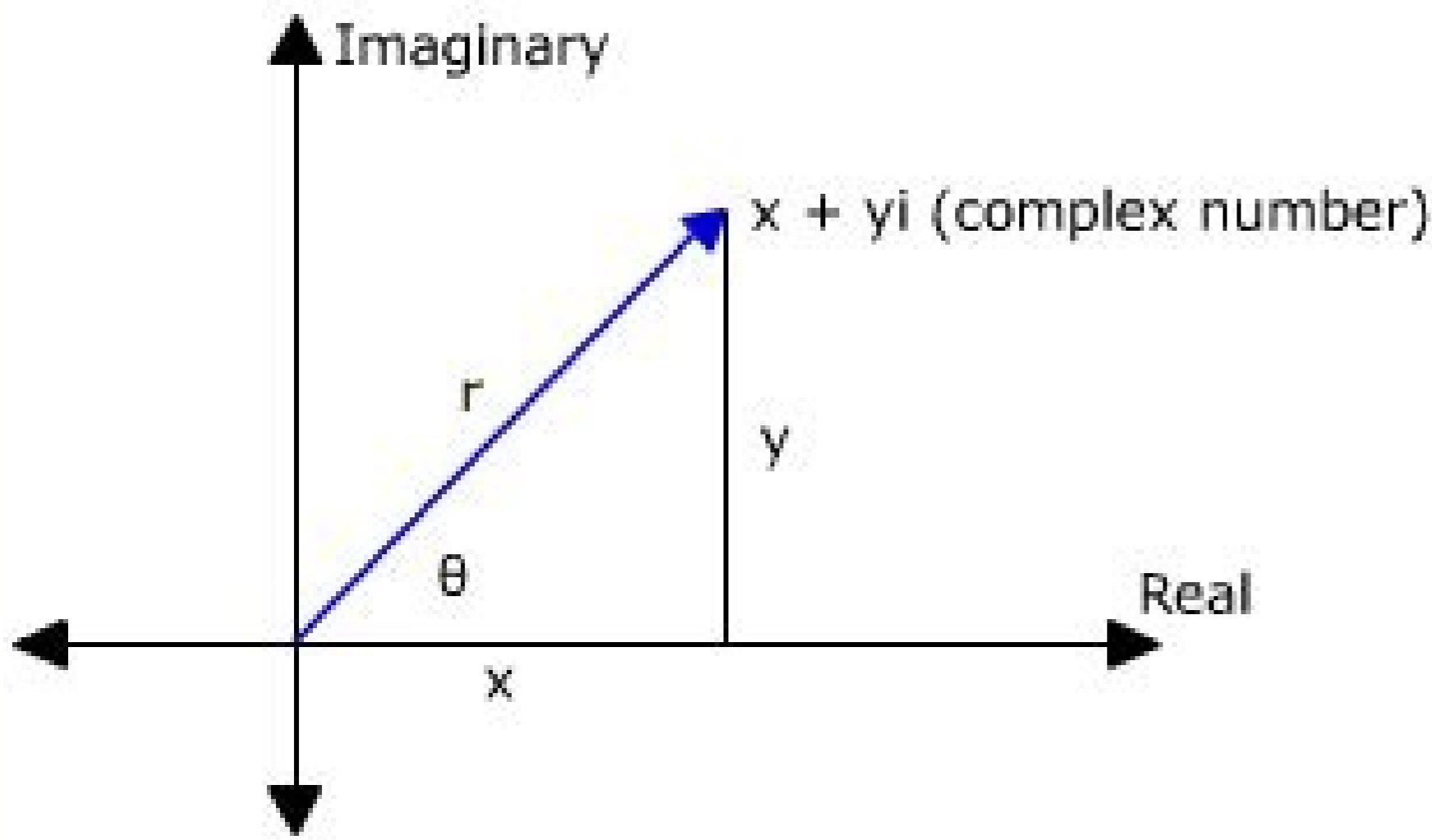
$$z = r \cos \theta + i r \sin \theta = r(\cos \theta + i \sin \theta), = r \text{ cis } \theta$$



$$r = \sqrt{a^2 + b^2} = |z|,$$

$$\text{arg}(z) = \text{Arg}(z) + 2\pi k, \quad k = 0, \pm 1, \pm 2, \dots$$

$$\text{Arg}(z) = \theta = \tan^{-1} \frac{b}{a}, \quad -\pi < \theta \leq \pi$$



How to convert rectangular form to polar form in matlab.

The first step is to create the symbolic expression: To find the indefinite integral, enter `int(f, x)`. If the expression depends on multiple symbolic variables, you can designate a variable of integration. For example, to factor the third-order polynomial, enter `syms x g = x^3 + 6*x^2 + 11*x + 6; factor(g)` ans = [x + 3, x + 2, x + 1]. The nested (Horner) representation of a polynomial is the most efficient for numerical evaluations: `syms x h = x^5 + x^4 + x^3 + x^2 + x; horner(h)` ans = x*(x*(x*(x*(x + 1) + 1) + 1) + 1). For a list of Symbolic Math Toolbox simplification functions, see Choose Function to Rearrange Expression. You can substitute a symbolic variable with a numeric value by using the subs function. For example, you can substitute the magic square A into a polynomial f: `Create the polynomial: syms x f = x^3 - 15*x^2 - 24*x + 350; Create the magic square matrix: Get a row vector containing the numeric coefficients of the polynomial f. Substitute the magic square matrix A into the polynomial f. For example, solve this multivariable equation with respect to y: syms x y solve(6*x^2 - 6*x^2*y + x*y^2 - x*y + y^3 - y^2 = 0, y)` If you do not specify any variable, you get the solution of an equation for the alphabetically closest to x variable. With the Symbolic Math Toolbox™ software, you can find Derivatives of single-variable expressions Partial derivatives Second and higher order derivatives Mixed derivatives For in-depth information on taking symbolic derivatives see Differentiation. To differentiate a symbolic expression, use the diff command. If a polynomial cannot be factored over the rational numbers, the output of the factor function is the standard polynomial form. Generate the title by using texlabel(f). For example, evaluate the symbolic expression f at the point x = 1/3: `syms x f = 2*x^2 - 3*x + 1; subs(f, 1/3)` The subs function does not change the original expression f. When your expression contains more than one variable, you can specify the variable for which you want to make the substitution. For example, to substitute the value x = 3 in the symbolic expressions `syms x y f = x^2*y + 5*x*sqrt(y); enter the command` You also can substitute one symbolic variable for another symbolic variable. There is no universal simplification function, because the meaning of a simplest representation of a symbolic expression cannot be defined clearly. For the complete set of rules MATLAB applies for choosing a default variable see Find a Default Symbolic Variable. You also can solve systems of equations. Plot the expression `x^3 - 6*x^2 + 11*x - 6; fplot(f)` Add labels for the x- and y-axes. The constant times the identity matrix eye(3) replaces the constant term of `E*A^3 - 15*A^2 - 24*A + 350*eye(3)` ans = -10 0 0 -10 0 0 -10. The polyval command provides an easy way to obtain the same result: `ans = -10 0 0 -10 0 0 -10`. To substitute a set of elements in a symbolic matrix, also use the subs command. For example: `syms x y f = sin(x)^2 + cos(y)^2; diff(diff(f, y), x)` You can perform symbolic integration including: Indefinite and definite integration Integration of multivariable expressions For in-depth information on the int command including integration with real and complex parameters, see Integration. Suppose you want to integrate a symbolic expression. Then you can solve the equation by calling the solve function. For details, see Add Title and Axis Labels to Chart xlabel('x') ylabel('y') title(texlabel(f)) grid on Plot equations and implicit functions using fimplicit. Plot the equation `(x^2 + y^2)^4 = (x^2 - y^2)^2` over -1

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