

Personal Skills 1

Multiply and divide complex numbers in polar form.

Learning outcomes Write a complex number in polar form, and solving complex problems in a polar form

Intended destination Find the product and quotient of the complex in a polar form.

Name Class.No.....

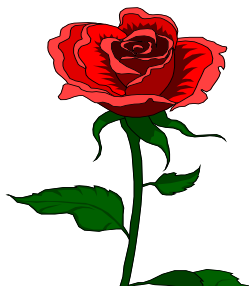
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Find the product of a complex number in polar form and then write the answer in the form $a + bi$.

No	Problem	$r(\cos\theta^\circ + i\sin\theta^\circ)$	$a+bi$
1	$[3(\cos 15^\circ + i\sin 15^\circ)][2(\cos 75^\circ + i\sin 75^\circ)]$		
2	$[4(\cos 70^\circ + i\sin 70^\circ)][15(\cos 20^\circ + i\sin 20^\circ)]$		
3	$[6(\cos 25^\circ + i\sin 25^\circ)][3(\cos 290^\circ + i\sin 290^\circ)]$		
4	$[2(\cos 100^\circ + i\sin 100^\circ)][4(\cos 50^\circ + i\sin 50^\circ)]$		
5	$[9(\cos 175^\circ + i\sin 175^\circ)][3(\cos 275^\circ + i\sin 275^\circ)]$		
6	$[7(\cos 130^\circ + i\sin 130^\circ)][2(\cos 95^\circ + i\sin 95^\circ)]$		

Find the quotient of a complex number in polar form and then write the answer in the form $a + bi$.

No	Problem	$r(\cos\theta^\circ + i\sin\theta^\circ)$	$a+bi$
1	$9(\cos 313^\circ + i\sin 313^\circ) \div 3(\cos 268^\circ + i\sin 268^\circ)$		
2	$4(\cos 266^\circ + i\sin 266^\circ) \div 2(\cos 86^\circ + i\sin 86^\circ)$		
3	$21(\cos 33^\circ + i\sin 33^\circ) \div 3(\cos 93^\circ + i\sin 93^\circ)$		
4	$\frac{2(\cos 15^\circ + i\sin 15^\circ)}{4(\cos 45^\circ + i\sin 45^\circ)}$		



Rose beauty because thorns sharp

Summary score

Score 10 points made points

Instructor. Mrs. Malaiporn uasuwan