

Personal Skills 1

Graphs and the absolute value of complex number

Learning outcomes. Deliberate write graph and find the absolute value of complex number in the form $a + bi$, or (a, b) and the properties of the complex to use in solving the problem.

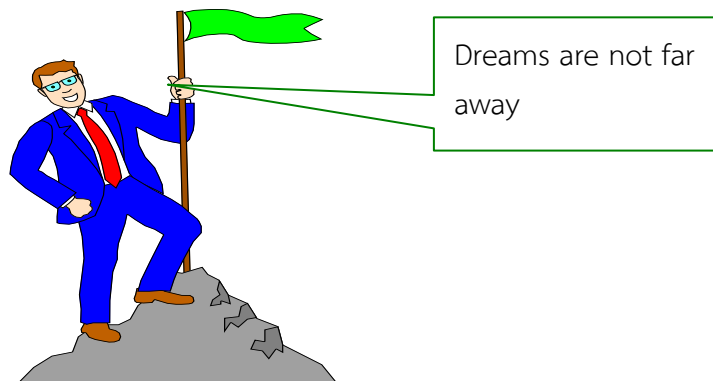
Intended destination Write graphs and find the absolute value of the complex by definition.

Name Grade.No.....

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Find the absolute value of the complex by definition.

No	Problem	$Z=a+bi$	$ z = \sqrt{a^2 + b^2}$
1	$z = 3(2-6i)-4(2+8i) = (6-18i)-(8+32i) = -2-50i$	$Z=-2-50i$	$= \sqrt{2504} = 2\sqrt{626}$
2	$Z = 2i(2-3i)-3i(-3+4i) = (4i+6)+(9i+12)=18+13i$	$Z=18+13i$	$= \sqrt{493}$
3	$z = (4-3i)(2+i) = 11-2i$	$Z= 11-2i$	$= \sqrt{125} = 5\sqrt{5}$
4	$Z = i(3-2i)^2 = i(5-12i) = 12+5i$	$Z=12+5i$	$= \sqrt{169} = 13$
5	$z = (3+2i)^3$	$Z =$	
6	$Z = \frac{3+5i}{-4i}$	$Z =$	
7	$Z = \frac{-14+23i}{3+4i}$	$Z =$	
8	$Z = \frac{8i^{125}}{(2+\sqrt{5}i)^2}$	$Z =$	
9	$Z^3 = -4i^{140} + 3i^{51}$	$Z^3 =$	
10	$Z^2 = \frac{2+i}{2-i} + \frac{3+4i}{1+2i}$	$Z^2 =$	



Summary score

Score 10 points made points

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