Personal Skills 1

Absolute value of complex number

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

Intended destination Find absolute value of complex numbers by using the properties of the complex.

Name .... Class. ....No........................

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Find absolute value of complex numbers by using the properties of the complex.

No	Problem	$\lvert z \rvert$
1	Z $= \frac{3+4i}{4-3i}$	$\left\lvert \frac{3+4i}{4-3i} \right\rvert = \frac{\lvert 3+4i \rvert}{\lvert 4-3i \rvert} = \frac{\sqrt{3^2+4^2}}{\sqrt{4^2+(-3)^2}} = \frac{\sqrt{9+16}}{\sqrt{16+9}} = \frac{\sqrt{25}}{\sqrt{25}} = \frac{5}{5} = 1$
2	$z = \frac{(1+3i)}{4i(1-3i)}$	
3	$.z = -2i(1-i)^2(1+\sqrt{3}i)^3$	
4	$z^2 = (1+4i)^4$	
5	$z^3 = i^{178} + 3i^{165}$	
6	$z^2 = .\frac{2-i}{(1+i)(1-2i)}$	

Summary score

Score 10 points made .... points

Instructor. Mrs. Malaiporn uasuwan