

Complex numbers 001

Problem has been graded.

$$\frac{\mathbf{V}_1 + 6j}{2j} + \frac{\mathbf{V}_1}{-cj} + \frac{\mathbf{V}_1}{c} = 0$$

Find \mathbf{V}_1 in cartesian coordinates, i.e., find a and b :

$$\mathbf{V}_1 = a + bj$$

Solve without a calculator

Given Variables:

$c : 4$.

Calculate the following:

$a (.) :$

-6



$b (.) :$

-6



 Hint: Solve in cartesian coordinates.