$$\frac{\mathbf{V_1} + 6j}{2j} + \frac{\mathbf{V_1}}{-cj} + \frac{\mathbf{V_1}}{c} = 0$$
 c:4

Find V_1 in cartesian coordinates, i.e., find a and b:

$$V_1 = a + bj$$

$$\frac{V_{1}+6j}{2j} + \frac{V_{1}}{-4j} + \frac{V_{1}}{4} = 0$$

$$\frac{2V_{1}+12j}{4j} + \frac{(-V_{1})}{4j} + \frac{V_{1}\cdot j}{4j} = 0$$

$$V_{1}+jV_{1} = -12j$$

$$V_{1} = -\frac{12}{1+j} \cdot \frac{1-j}{1-j} = -\frac{12}{1+j} \cdot \frac{1-j}{1+j} = -6(1+j)$$

$$\boxed{a=-6}$$

$$\boxed{b=-6}$$