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

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

$$V_1 = a + bj$$

$$\frac{V_{1} + 48}{j} - \frac{V_{1} + 4j}{2j} + \frac{V_{1}}{-4j} + \frac{V_{1}}{4} = 0$$

$$\frac{4V_{1} + 16j}{4j} + \frac{(-2V_{1} - 8j)}{4j} + \frac{(-V_{1})}{4j} + \frac{(V_{1}j)}{4j} = 0$$

$$V_{1} + jV_{1} + 8j = 0$$

$$V_{1} = -\frac{8j}{i+j} \cdot \left(\frac{1-j}{i-j}\right)$$

$$V_{2} = -\frac{8j-8}{i+1} = -4-4j$$

$$\sqrt{1 - 4j}$$