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$$|V| = \sqrt{V_{\chi}^{2} + V_{y}^{2}} = \sqrt{36^{2} + 15^{2}} = 39$$

$$\cos \theta_{\chi} = \frac{V_{\chi}}{V} = \frac{-36}{39}, \quad \theta_{\chi} = 157.4^{\circ}$$

$$\cos \theta_{y} = \frac{V_{y}}{V} = \frac{15}{39}, \quad \theta_{y} = 67.4^{\circ}$$

$$N = \frac{V}{V} = \frac{-36i + 15i}{39} = -0.923i + 0.385j$$

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