

$$\boxed{25} \quad r = \sqrt{0^2 + 4^2} = \sqrt{16} = 4, \quad \tan \theta = \frac{4}{0} \text{ is undefined} \Rightarrow \theta_R = 90^\circ$$

Since $4i$ is positive and quadrantal in the complex plane, $\theta = 90^\circ$; $4(\cos 90^\circ + i \sin 90^\circ)$