

$$\boxed{5} \quad (\text{a}) \quad r = \sqrt{4^2 + 3^2} = \sqrt{16 + 9} = \sqrt{25} = 5$$

$$(\text{b}) \quad \sin \theta = \frac{y}{r} = \frac{3}{5} \qquad \cos \theta = \frac{x}{r} = \frac{4}{5}$$