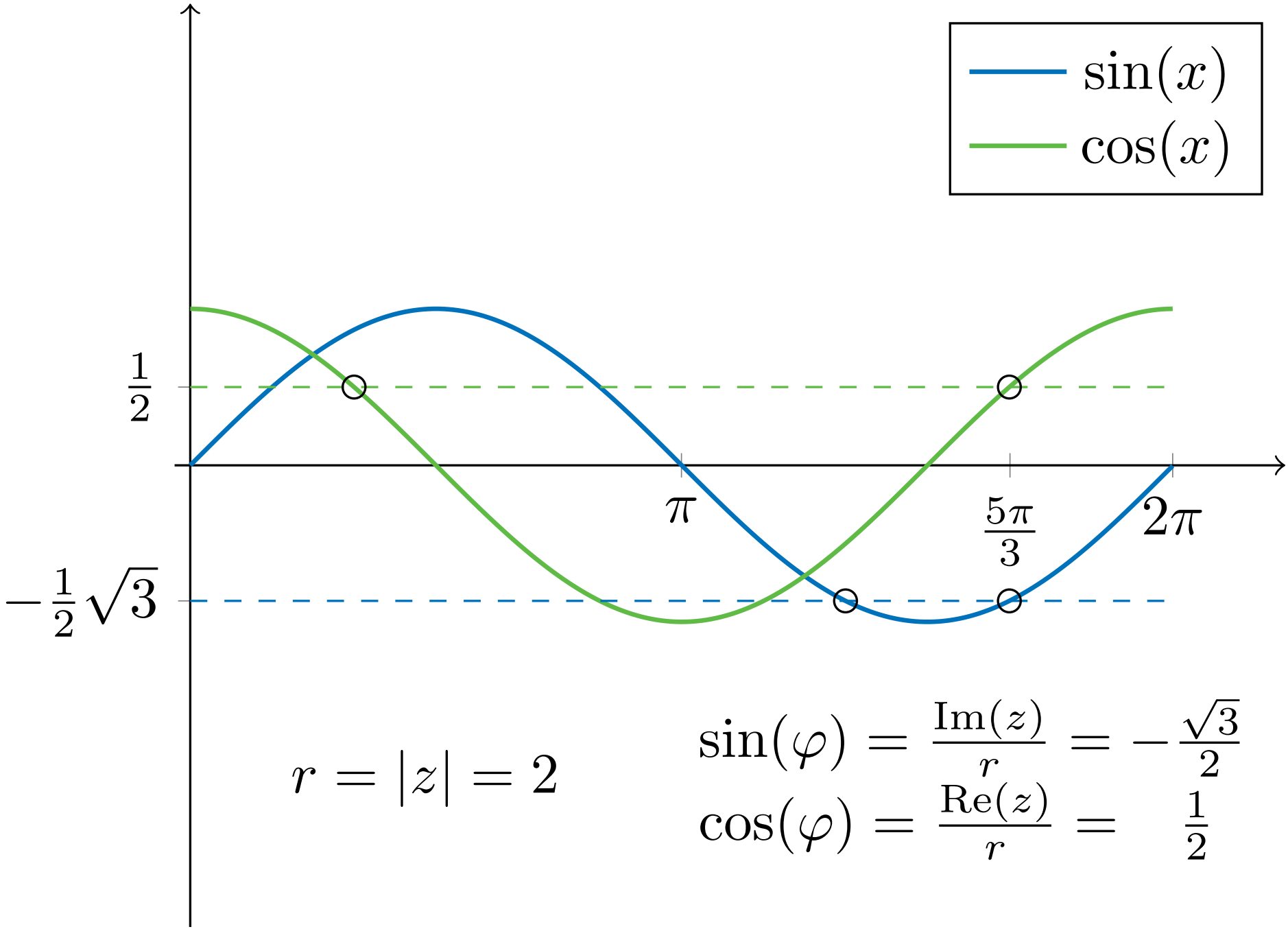
$$z = 1 - \sqrt{3}i = r \cdot e^{i\varphi}$$



$$r = |z| = 2$$

$$\sin(\varphi) = \frac{\mathrm{Im}(z)}{r} = -\frac{\sqrt{3}}{2}$$

$$\cos(\varphi) = \frac{\mathrm{Re}(z)}{r} = \frac{1}{2}$$