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

$$-\frac{\sin(x)}{\cos(x)}$$

$$\frac{1}{2}$$

$$-\frac{1}{2}\sqrt{3}$$

$$r = |z| = 2$$

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

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