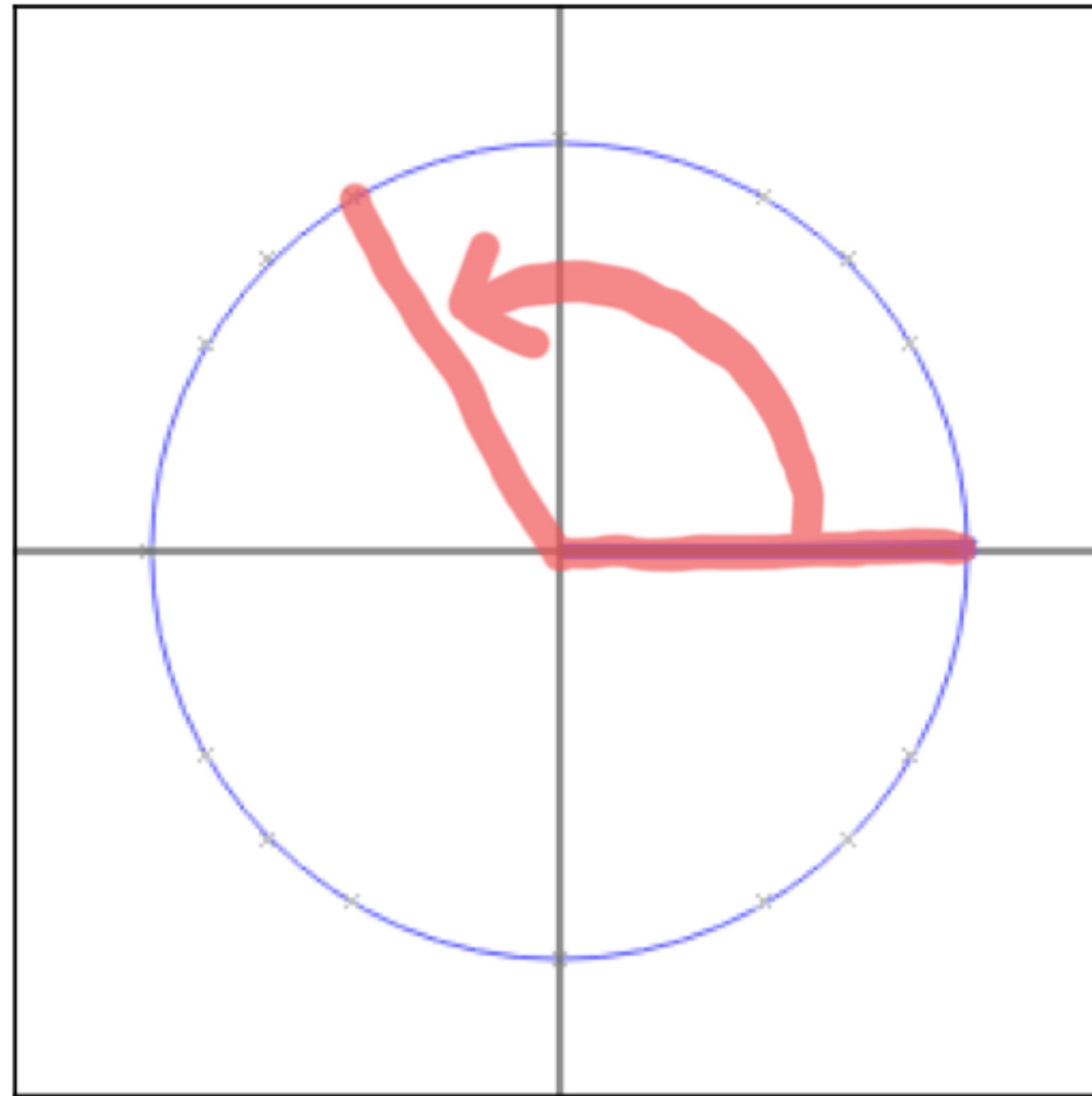


1. Sketch  $\theta = \frac{2\pi}{3}$  in standard position.



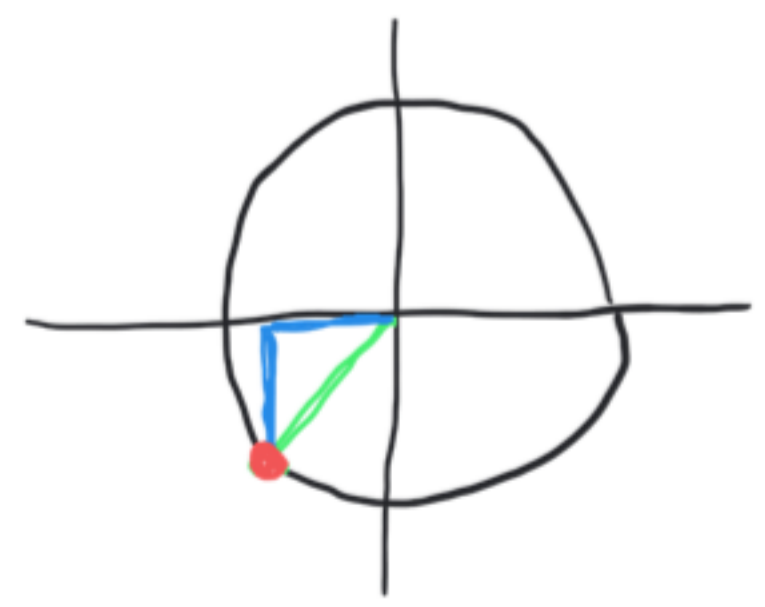
2. Convert  $225^\circ$  to radian measure in terms of  $\pi$ .

$$\frac{225}{1} \cdot \frac{\pi}{180} = \frac{5 \cdot 45 \cdot \pi}{4 \cdot 45} = \boxed{\frac{5\pi}{4}}$$

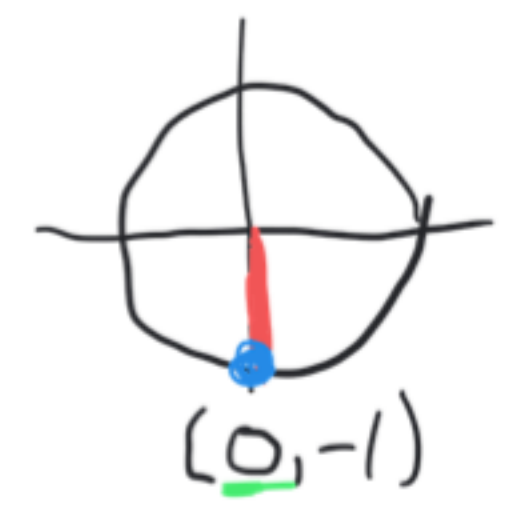
3. Find the terminal point on the unit circle determined by  $\frac{5\pi}{4}$  radians.

Use exact values, not decimal approximations.

$$\boxed{\left(-\frac{\sqrt{2}}{2}, -\frac{\sqrt{2}}{2}\right)}$$



4. Find the exact value of  $\cos \frac{3\pi}{2}$ .



$$\boxed{0}$$