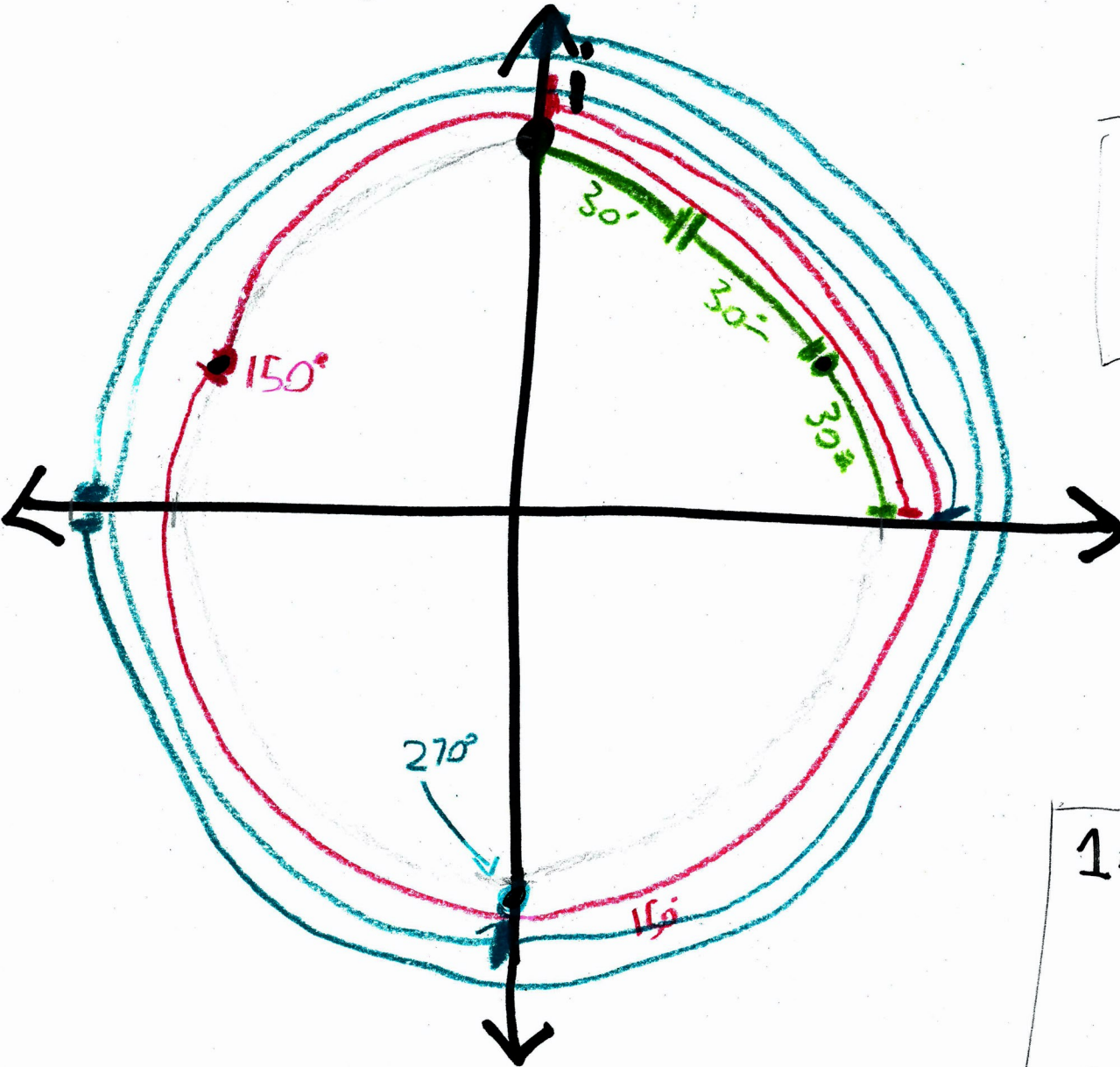


CUBE roots of i

$$i = 1 \angle 90^\circ$$

$$\sqrt[3]{i} = 1 \angle 30^\circ, 1 \angle 150^\circ, 1 \angle 270^\circ$$



$$1 \angle 30^\circ: 30^\circ + 30^\circ + 30^\circ = 90^\circ$$

CROSSES +IR AXIS
ZERO TIMES

$$1 \angle 150^\circ: 150^\circ + 150^\circ + 150^\circ = 450^\circ$$
$$\cong 90^\circ$$

CROSSES +IR AXIS ONCE

$$1 \angle 270^\circ: 270^\circ + 270^\circ + 270^\circ$$
$$= 810^\circ$$
$$\cong 90^\circ$$

CROSSES +IR AXIS TWICE