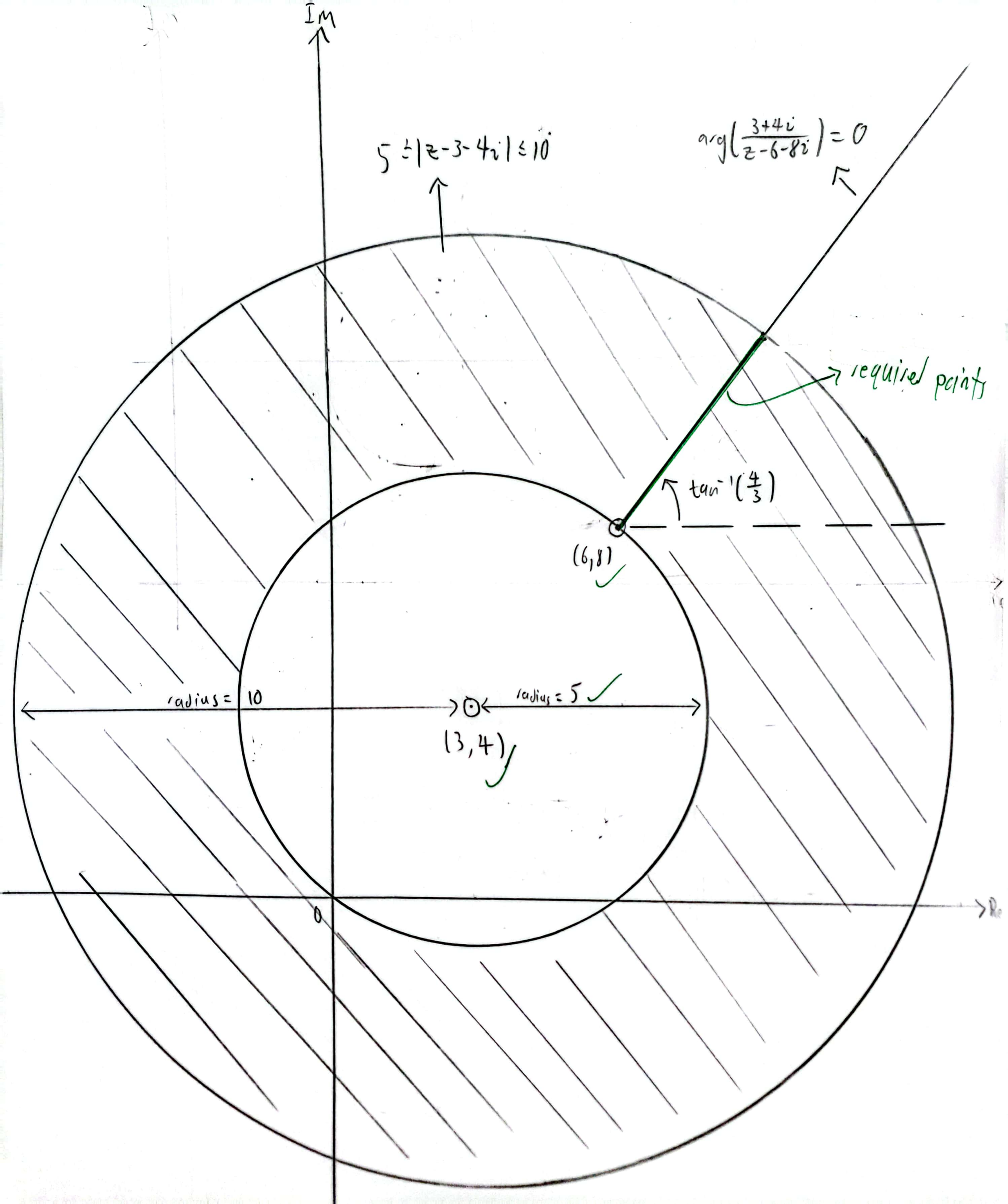
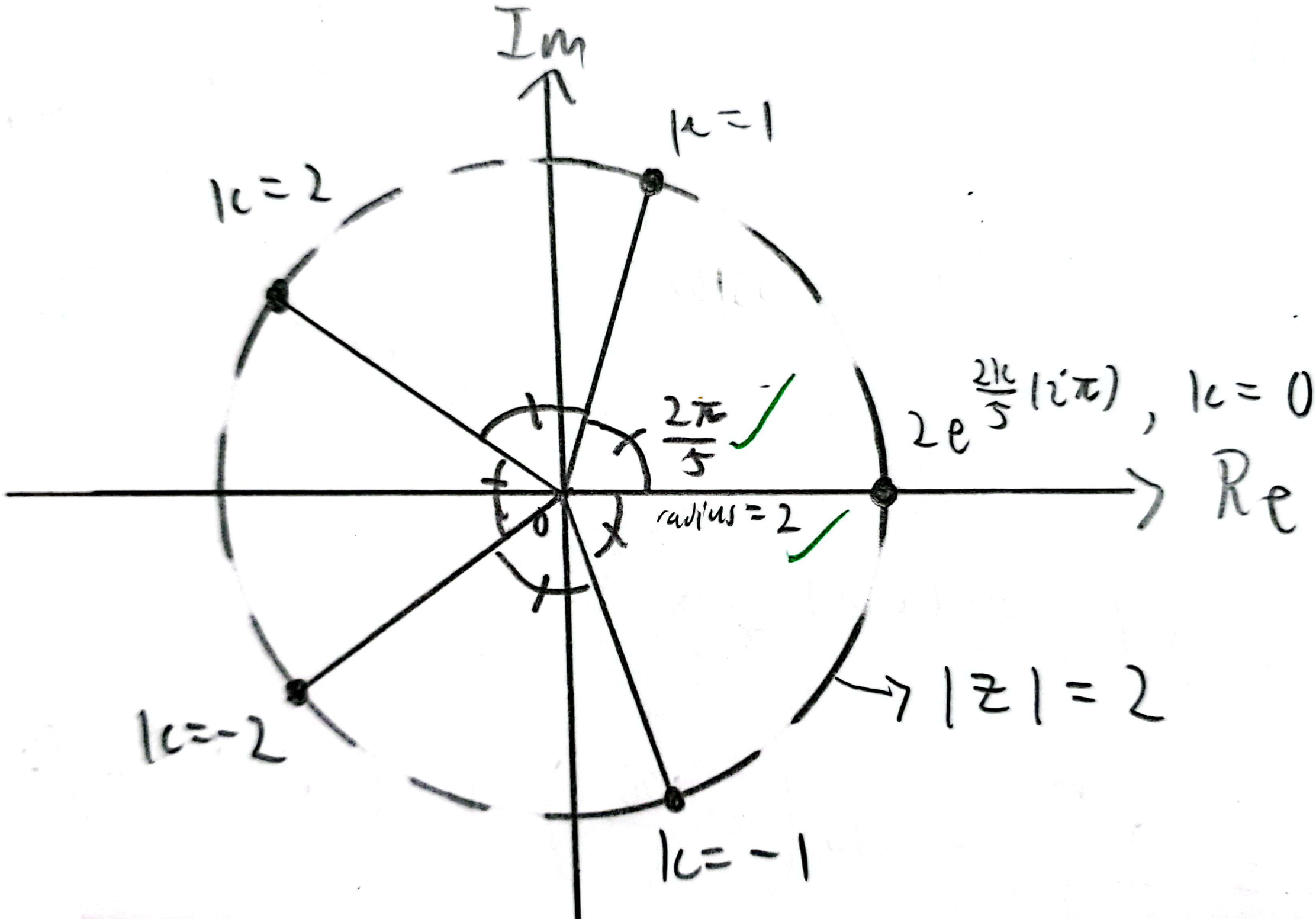
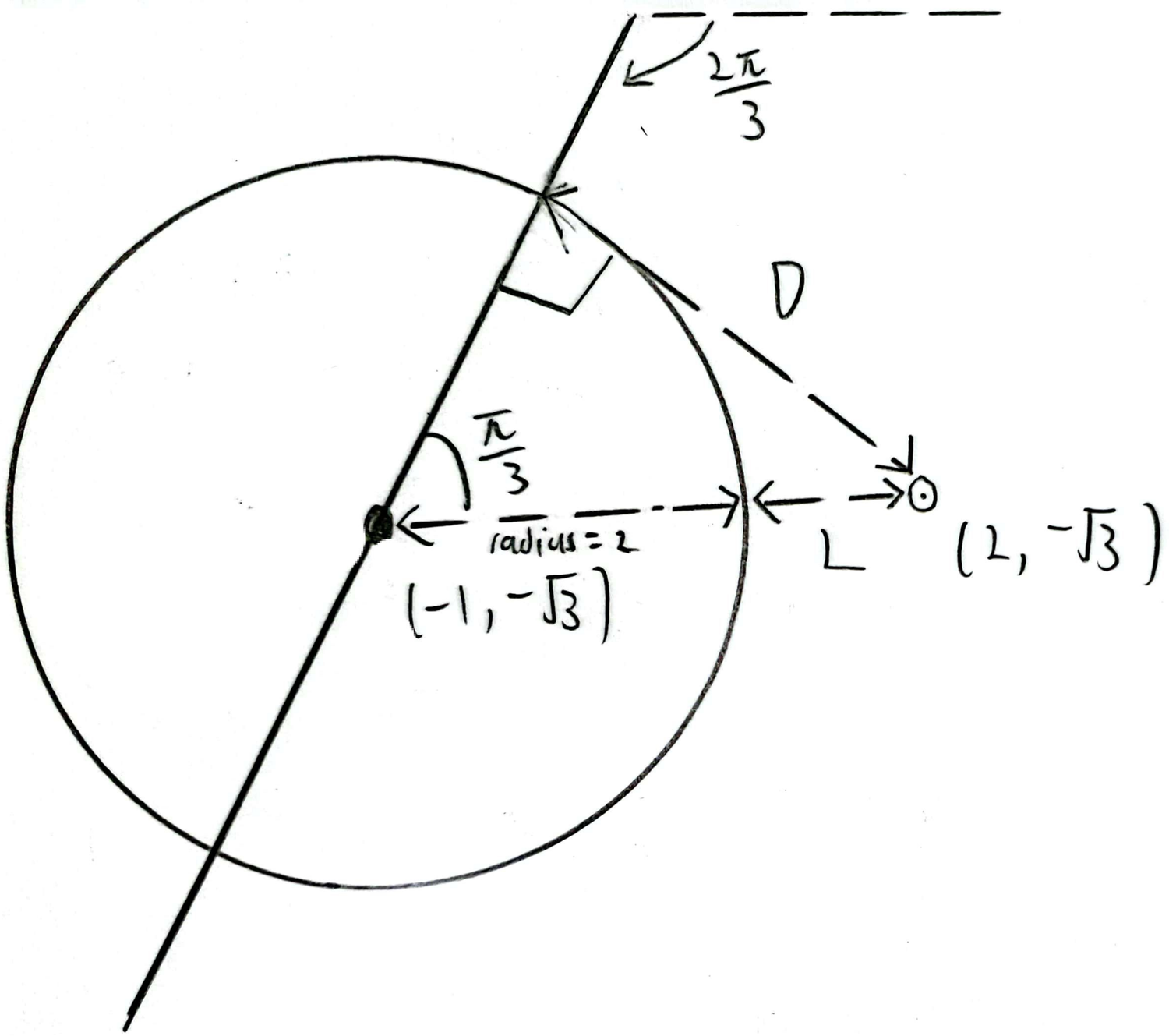

Im
$5 \leq |z-3-4i| \leq 10$
$\arg\left(\frac{3+4i}{z-6-8i}\right) = 0$
required points
$\tan^{-1}\left(\frac{4}{3}\right)$
(6,8)
radius = 10
radius = 5
(3,4)
0
Re


Im
Re
k=1
k=2
k=-2
k=-1
k=0
$2e^{\frac{2k}{5}(i\pi)}$, k=0
$\frac{2\pi}{5}$
radius = 2
|z|=2



$$L = \left|(-1-\sqrt{3}i) - (2-\sqrt{3}i)\right| - 2$$

$$= 3 - 2$$

$$= 1$$

$$D = (2+L)\sin\left(\frac{\pi}{3}\right)$$

$$= 3\sin\left(\frac{\pi}{3}\right)$$

$$= \frac{3\sqrt{3}}{2}$$