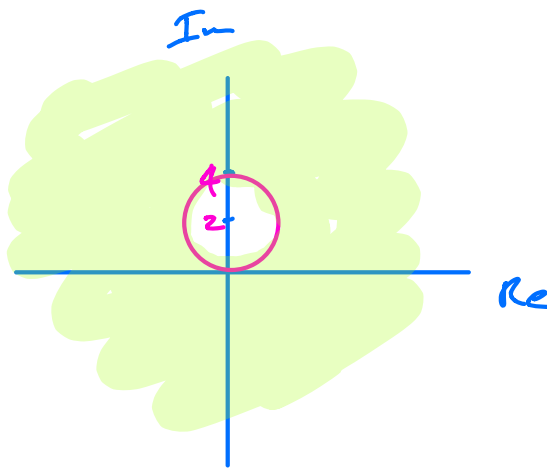


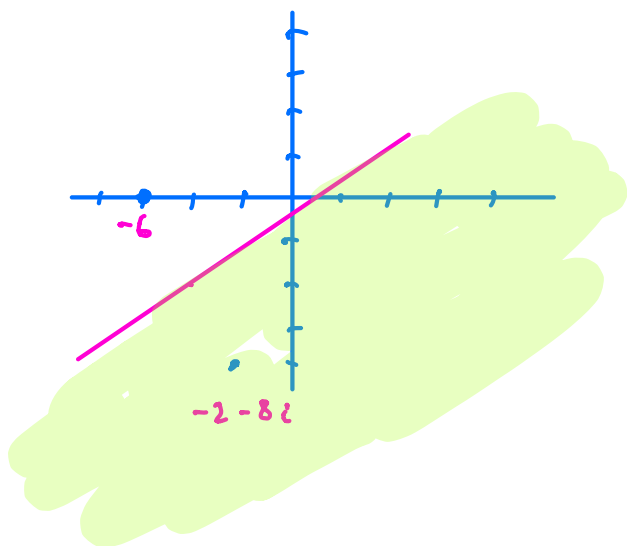
Regions in Argand Diagram

Exercise 2F

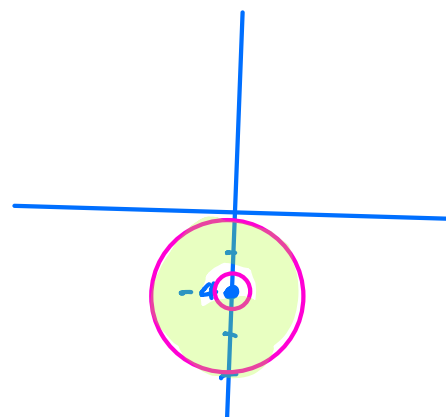
1) b) $|z - 2i| > 2$



1d) $|z + 6| > |z + 2 + 8i|$
 $|z - (-6)| > |z - (-2 - 8i)|$

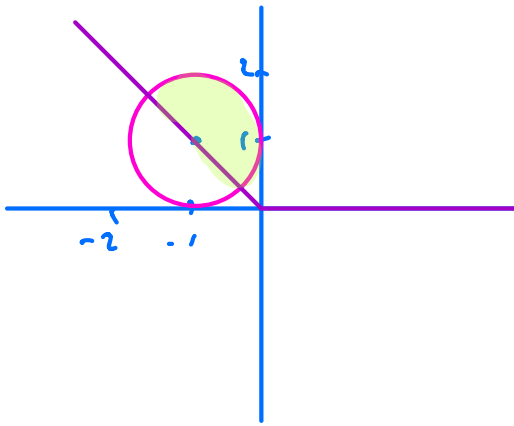


1f) $1 \leq |z + 4i| \leq 4$
 $1 \leq |z - (-4i)| \leq 4$

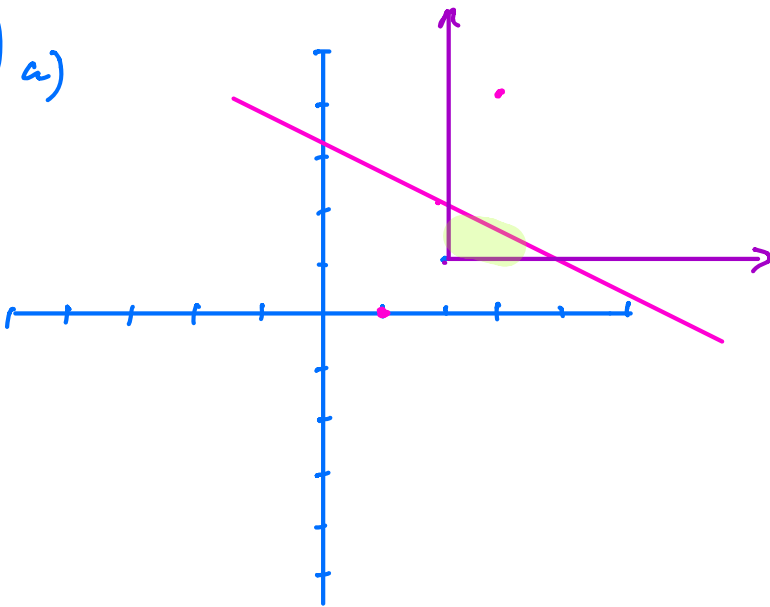


$$3) \quad |z+1-i| \leq 1 \quad 0 \leq \arg z \leq \frac{3\pi}{4}$$

$$|z-(-1+i)| \leq 1$$



5) a)



$$|z-2| = |z-6-8i|$$

$$= |z-(6+8i)|$$

$$\arg(z-4-2i) = 0$$

$$\arg(z-(4+2i)) = 0$$

$$\arg(z-(4+2i)) = \frac{\pi}{2}$$

b) Shaded Δ

for $|z-2| \leq |z-6-8i| \cap 0 \leq \arg(z-4-2i) \leq \frac{\pi}{2}$
