

L1.1

Identify and sketch the set of points satisfying.

- (a) $|z - 1 - i| = 1$ (f) $0 < \operatorname{Im} z < \pi$
(b) $1 < |2z - 6| < 2$ (g) $-\pi < \operatorname{Re} z < \pi$
(c) $|z - 1|^2 + |z + 1|^2 < 8$ (h) $|\operatorname{Re} z| < |z|$
(d) $|z - 1| + |z + 1| \leq 2$ (i) $\operatorname{Re}(iz + 2) > 0$
(e) $|z - 1| < |z|$ (j) $|z - i|^2 + |z + i|^2 < 2$

Solution

Let $z = x + iy$, where $x, y \in \mathbb{R}$.

(a) Circle, centre $1 + i$, radius 1.

$$|z - 1 - i| = 1 \Leftrightarrow |(x - 1) + i(y - 1)| = 1 \Leftrightarrow (x - 1)^2 + (y - 1)^2 = 1^2$$

(b) Annulus with centre 3, inner radius $1/2$, outer radius 1.

$$\begin{aligned} 1 < |2z - 6| < 2 &\Leftrightarrow 1 < 2|z - 3| < 2 \Leftrightarrow \\ &\Leftrightarrow 1/2 < |z - 3| < 1 \Leftrightarrow (1/2)^2 < (x - 3)^2 + y^2 < 1^2 \end{aligned}$$

(c) Disk, centre 0, radius $\sqrt{3}$.

$$\begin{aligned} |x + iy - 1|^2 + |x + iy + 1|^2 < 8 &\Leftrightarrow \\ \Leftrightarrow (x - 1)^2 + y^2 + (x + 1)^2 + y^2 < 8 &\Leftrightarrow x^2 + y^2 < (\sqrt{3})^2 \end{aligned}$$

(d) Interval $[-1, 1]$.

$$\begin{aligned} |z - 1| + |z + 1| \leq 2 &\Leftrightarrow \sqrt{(x - 1)^2 + y^2} \leq 2 - \sqrt{(x + 1)^2 + y^2} \Leftrightarrow \\ &\Leftrightarrow \left(\sqrt{(x - 1)^2 + y^2}\right)^2 \leq \left(2 - \sqrt{(x + 1)^2 + y^2}\right)^2 \Leftrightarrow \\ &\Leftrightarrow \sqrt{(x + 1)^2 + y^2} \leq x + 1 \Leftrightarrow \left(\sqrt{(x + 1)^2 + y^2}\right)^2 \leq (x + 1)^2 \Leftrightarrow y = 0 \end{aligned}$$

Now, take $y = 0$ in the inequality, and compute the three intervals

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