

3.79
x8

$$|1-i+\log_2 x| \leq \sqrt{10} \rightarrow (1+\log_2 x)^2 + 1 \leq 10$$

$$(1+\log_2 x)^2 \leq 9 \rightarrow -3 \leq 1+\log_2 x \leq 3$$

$$-4 \leq \log_2 x \leq 2 \rightarrow \frac{1}{16} \leq x \leq 4$$

3.79
x9

$$4 \geq |z+i| \rightarrow 16 \geq x^2 + (y+1)^2$$

$$1 \leq \operatorname{Im} z^2 \leq 2 \rightarrow 1 \leq 2xy \leq 2 \rightarrow \frac{1}{2x} \leq y \leq \frac{1}{x}$$

$$0 \leq \arg z \leq \frac{\pi}{3} \quad 0 \leq \theta \leq \frac{\pi}{3}$$

