

3.72
p8

$$1 \geq \left| \frac{z-1}{z+1} \right| = \left| \frac{x-1+iy}{x+1+iy} \right| = \frac{|x-1+iy|}{|x+1+iy|} = \frac{\sqrt{(x-1)^2+y^2}}{\sqrt{(x+1)^2+y^2}}$$

$$(x+1)^2+y^2 \geq (x-1)^2+y^2 \rightarrow x \geq 0$$

$$0 \leq \operatorname{Re}(z^2) = x^2-y^2 \rightarrow x > y, x < -y$$

3.72
p9

pl 3.33 ∫ 0.5

