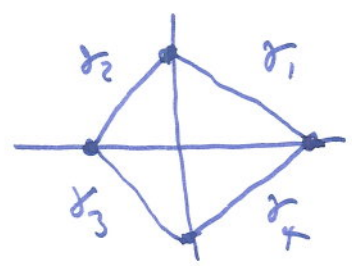


Priestley Chapter 4 Some Solutions

4.2 Parametric definitions of the following contours.

(i) square with vertices at $\pm 1, \pm i$
four line segments.

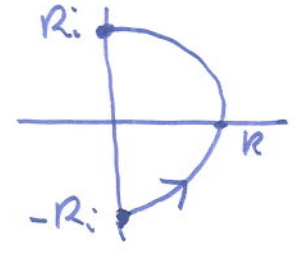


Use the formula $(1-t)u + tv$
for $[u, v]$.

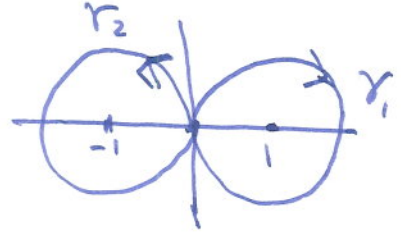
$\gamma_1: 1 - t + it$		$\gamma_3: -1 + t - it$
$\gamma_2: 1 - it - t$		$\gamma_4: -i + it + t$

(ii) closed semicircle - right half-plane

$\gamma(t) = R e^{it}, -\frac{\pi}{2} \leq t \leq \frac{\pi}{2}$



(iii) pair of circles $|z-1|=1$, $|z+1|=1$
clockwise anticlockwise



$\gamma_1 = 1 + e^{-it}, \pi \leq t \leq 3\pi$

$\gamma_2 = -1 + e^{it}, 0 \leq t \leq 2\pi$