

This is the first block.

Every quadratic rational map with a period 3 critical point is represented up to Möbius conjugacy by

$$h_a(z) = \frac{(z-a)(z-1)}{z^2}.$$

The critical points are 0 and  $c_2(a) = \frac{2a}{a+1}$  and 0 is of period 3. In fact:

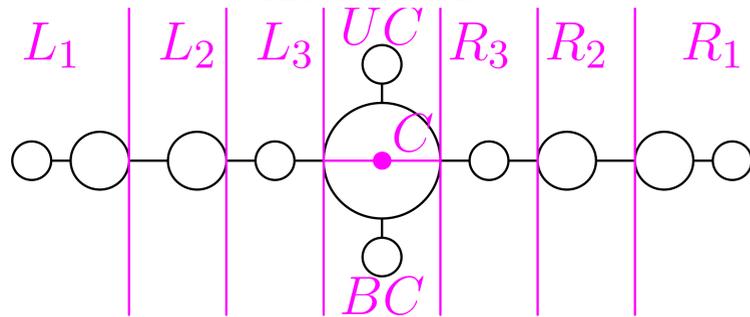
$$h_a(0) = \infty, \quad h_a(\infty) = 1, \quad h_a(1) = 0,$$

$$h_a(c_2(a)) = -\frac{(a-1)^2}{4a} = v_2(a), \quad h_a^{-1}(0) = \{1, a\}, \quad h_a^{-1}(1) = \left\{ \infty, \frac{a}{a+1} \right\}.$$

Write

$$V_3 = \{h_a : a \in \mathbb{C}, a \neq 0\}.$$

This is the second block.



This is the third block.

