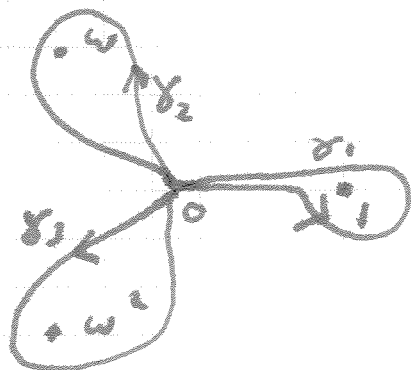


Let  $w = \sqrt[3]{1-z^3}$ . What are the branchpoints? Let  $w = e^{2\pi i/3}$  and consider the three loops:



Let  $T_i$  be the monodromy action on the three points  $\{1, w, w^2\}$  (that are the values of  $w$  when  $z=0$ ) going around  $\gamma_i$ .

- (a) How does  $T_1$  act on  $\{1, w, w^2\}$ ?  
Same question for  $T_2, T_3$ ?
- (b) Is  $T_1 T_2 = T_2 T_1$ ?
- (c) Is  $T_1 T_2 T_3 = \text{identity}$ ?