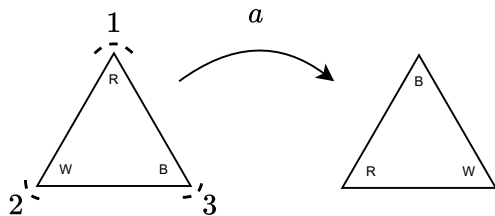
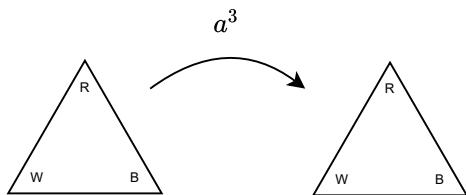
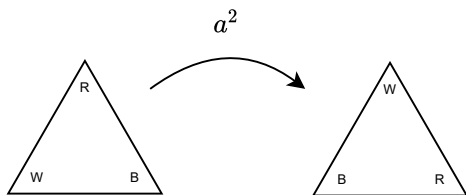


Call motion 1 "a" :



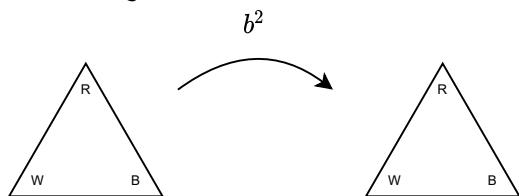
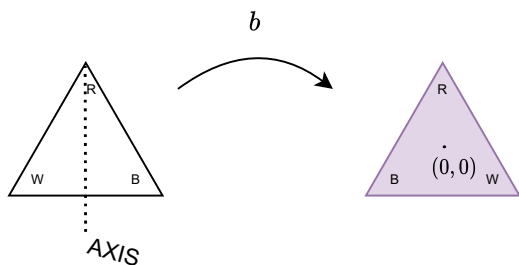
$$a^2 = a \cdot a$$

$\cdot \implies$ "followed by"

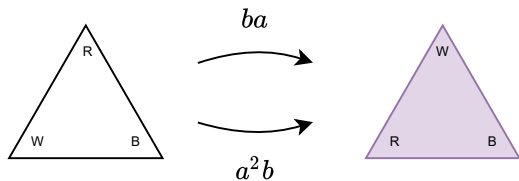
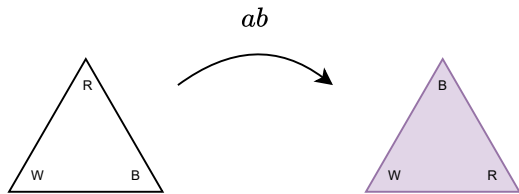


$$\text{So } a^3 = e$$

Next, we must check reflections (call this motion "b")



$$\text{So } b^2 = e$$



D_3 is non-abelian

Last pair shows $ba = a^2b$