

[11-05-27-T21]

Assignment

Finish the table that we began making in class. So far, we have:

	ρ_0	ρ_1	ρ_2	μ_1	μ_2	μ_3
ρ_0	ρ_0	ρ_1	ρ_2	μ_1	μ_2	μ_3
ρ_1	ρ_1	ρ_2	ρ_0			
ρ_2	ρ_2					
μ_1	μ_1			ρ_0	ρ_2	
μ_2	μ_2					
μ_3	μ_3					

It may be helpful to make two equilateral triangles and label their vertices. You can perform the rotations and the "flips" across the lines of symmetry with one triangle, then compare the end result to the other triangle that you have not touched.

Do not verify associativity - the operation "followed by" is associative on this set. But, Is this structure a group?