HW w8-2

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1. We have permutations f=(123)(45) and g=(1234) with 5 elements. Determine $1) f \circ g$, $2) g \circ f$, $3) f^3$, $4) g^4$

$$(14) f \circ g = (123)(45)(1234) = (13245)$$

 $2) g \circ f = (1234)(123)(45) = (13542)$
 $3) f^3 = (123)^3 (45)^3 = (45)$
 $4) g' = (1234)^4 = ()$

2. How to describe the edge-symmetry group of a square if the edges are labeled with a, b, c and d?

