Day 6

Groups with 44 elements

Turn to someone sitting near you. Take about 4 minutes to work together to try to find 4 examples of groups that have 44 elements.

Elementary Properties of Groups

1. “Suppose $n \geq 3$. There exist distinct reflections F_1 and F_2 in the dihedral group D_n such that $F_1 F_2 = R_0$.”

This statement is...

(A) True.

(B) False.

No voting! Work with your neighbor to prove:

2. Let G be a group and $a, b \in G$. Then $(ab)^2 = a^2b^2$ if and only if $ab = ba$.