Modern algebra I, spring 2017. Quiz 1

Name:	
1.	Check the boxes that are followed by correct statements.
	$(A \cup A) \setminus (A \cap A) = \emptyset$ for any set A .
	The composition of two bijective maps is a bijective map.
□ ev	The relation on natural numbers $\mathbb N$ where $a \sim b$ if $a+b$ is en is an equivalence relation.
\Box	Any common divisor of natural numbers n and m divides e greatest common divisor $\gcd(n,m)$.
□	The set of integers $\mathbb Z$ with the binary operation subtraction a group.
	The set of strictly positive rational numbers
	$\mathbb{Q}_{>0} = \{ x \in \mathbb{Q} : x > 0 \}$
wi	th the binary operation multiplication is a group.