Homework 1/18

① Prove $\frac{a}{b} + \frac{c}{d} = \frac{ad + bc}{bd}$ if $b, d \neq 0$

② If $a < b$, $c < 0$, show that $ac > bc$

③ Whether $a \in \mathbb{P}$ or $-a \in \mathbb{P}$, prove $a \cdot a > 0$.

(Do not write a^2 for $a \cdot a$. This notation has not been introduced yet. Even notation "2" has not been introduced.)