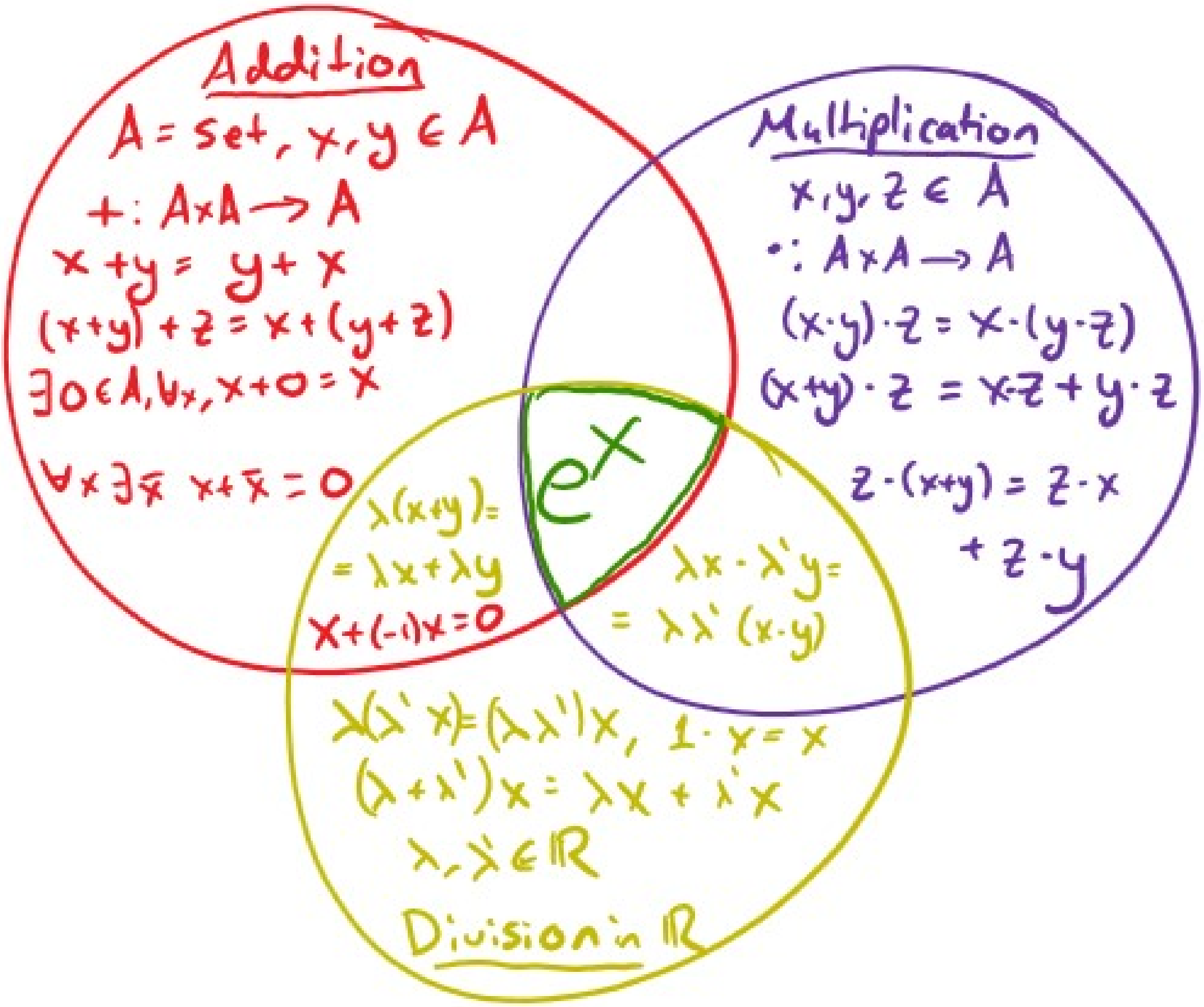
Addition
A = set, $x, y \in A$
$+ : A \times A \to A$
$x + y = y + x$
$(x+y) + z = x + (y+z)$
$\exists 0 \in A, \forall x, x + 0 = x$
$\forall x \exists \bar{x} \; x + \bar{x} = 0$
Multiplication
$x, y, z \in A$
$\cdot : A \times A \to A$
$(x \cdot y) \cdot z = x \cdot (y \cdot z)$
$(x+y) \cdot z = x \cdot z + y \cdot z$
$z \cdot (x+y) = z \cdot x + z \cdot y$
e^x
$\lambda(x+y) = \lambda x + \lambda y$
$x + (-1)x = 0$
$\lambda x \cdot \lambda' y = \lambda\lambda'(x \cdot y)$
$\lambda(\lambda' x) = (\lambda\lambda')x, \; 1 \cdot x = x$
$(\lambda + \lambda')x = \lambda x + \lambda' x$
$\lambda, \lambda' \in \mathbb{R}$
Division in $\mathbb{R}$