1. For all $m, n: m+n=n+m$ and $n m=m n$ (the commutative laws for addition and multiplication).
2. For all $m, n, k: m+(n+k)=(m+n)+k$ and $m(n k)=(m n) k$ (the associative laws for addition and multiplication).
3. For all $m, n, k: k(m+n)=(k m)+(k n)$ (the distributive law) .
4. For all $n: n+0=n$ (the additive identity law).
5. For all $n$ : $1 n=n$ (the multiplicative identity law).
6. For all $n$, there is a number $k$ such that $n+k=0$ (the additive inverse law).
7. For all $m, n, k$, where $k^{1} 0$ : if $k m=k n$, then $m=n$ (the cancellation law).
