

int_ring^{13,42}

\mathbb{Z} -rng

$\equiv_{\text{def}} < \mathbb{Z}$
 , $\lambda u, v. (u =_0 v)$
 , $\lambda u, v. u \leq_{\mathbb{Z}} v$
 , $\lambda u, v. u + v$
 , 0
 , $\lambda u. -u$
 , $\lambda u, v. u * v$
 , 1
 , $\lambda u, v. \text{if } (v =_0 0) \text{ then inr } \cdot \text{ else inl } (u \div v) \text{ fi } >$