qrng[11,40]

qrng
$\equiv_{\text{def}}$ <rationals
, $\lambda x,y.$ qeq(x; y)
, $\lambda x,y.$ q_le(x; y)
, $\lambda x,y.$ $x + y$
, 0
, $\lambda x.$-(x)
, $\lambda x,y.$ $x * y$
, 1
, $\lambda x,y.$ if qeq(y; 0) then inr $\cdot$ else inl qdiv(x; y) fi >

clarification:

qrng
$\equiv_{\text{def}}$ <rationals
, $\lambda x,y.$ qeq(x; y)
, $\lambda x,y.$ q_le(x; y)
, $\lambda x,y.$ $x + y$
, 0
, $\lambda x.(\text{-}1) * x$
, $\lambda x,y.$ $x * y$
, 1
, $\lambda x,y.$ if qeq(y; 0) then inr $\cdot$ else inl qdiv(x; y) fi >

---

http://www.nuprl.org/FDLcontent/p0_963683_/p74_697639_{qrng}.html