

qmul-non-neg^{11,40}

$\forall a, b: \mathbb{Q}.$

$$((a = 0 \in \mathbb{Q}) \vee (b = 0 \in \mathbb{Q}) \vee (0 < a \ \& \ 0 < b) \vee (0 < -(a) \ \& \ 0 < -(b))) \iff 0 \leq a * b$$