

prime_ideal_p^{13,42}

$\text{IsPrimeIdeal}(R;P) \equiv_{\text{def}} (\neg(P(1))) \ \& \ (\forall a, b:|R|. (P(a * b) \Rightarrow ((P(a)) \vee (P(b))))$

clarification:

$\text{IsPrimeIdeal}(R;P) \equiv_{\text{def}} (\neg(P(1R))) \ \& \ (\forall a:|R|, b:|R|. (P(a (*R) b) \Rightarrow ((P(a)) \vee (P(b))))$