finitely generated ideals A.B of R. To risq vaeve rol (A)T + (A)T = (AA)T i nismob- $_{s}$ T (S)

To risq vaeve rol (A)T + (A)T = (AA)T i nismob- ϵ T (E)

Proposition O₁ (cf Prop. 1, [15]) Let A, A, A, A, and principal ideals of R.

B be ideals of an integral domain R

(A)T + (A)T = (A)T = (AA)T bas $(A)T \subseteq (A)T$ (a) if k is a positive integer such that $A^{K} \subseteq B$ then

 $(n_n^{\mathbf{T}}A_{\bullet \cdots \bullet} t_{\mathbf{I}}^{\mathbf{T}}A)T = (n_n^{\Theta}A_{\bullet \cdots \bullet} t_{\mathbf{I}}^{\Theta}A)T$ (b) if e_i and f_i are positive integers for $1 \le i \le n$, then

(c) if the hypothesis is as in (b) then

In particular if (a, ..., an) is an ideal of R then $(\mathsf{n}_\mathsf{n}^\mathsf{T} \mathsf{A} + \ldots + \mathsf{t}_\mathsf{I}^\mathsf{T} \mathsf{A}) \mathsf{T} = (\mathsf{n}_\mathsf{n}^\mathsf{G} \mathsf{A} + \ldots + \mathsf{s}_\mathsf{S}^\mathsf{G} \mathsf{A} + \mathsf{t}_\mathsf{I}^\mathsf{G} \mathsf{A}) \mathsf{T}$

 $T(a)_{n}^{\mathsf{T}} = T(a_{n}^{\mathsf{T}} a_{n}, \dots a_{n}^{\mathsf{T}} a_{n})_{\mathsf{T}} = T(a_{n}^{\mathsf{T}} a_{n}, \dots a_{n}^{\mathsf{T}} a_{n})_{\mathsf{T}}$

(e) if A and B are such that there exists an ideal A* $A(BA)T = (B)T + (A)T + (A)T \subseteq (BA)T \quad (B)$

A To anoitserf to bleif of the Tield of fractions of R in (1) if T(A) = R or T(B) = R, the field of fractions of R (A)T + (A)T = (A)T = (AA)T

The state of the state of $(BA)T = (B \cap A)T$ (B) then T(A)T = T(A)T = T(B)

such that A* 2 B and T(A*) = T(A) then

 $E(A) = A \text{ for } A \text{ the supplemental } A \text{ the s$

Note . (a) and (e) of Prop. 1 of [15] are combined to

Theorem Oz (Lemma 1 [15]) (i) Suppose that (A, and B are give (a) while (e) of Prop. O, is new but easy to verify.

(ii) If A and B are comaximal ideals of R and if (ii) each positive integer K, (A + BK) T(A,B) = T(A,B). ideals of R such that (A + B) T(A,B) = T(A,B) then for

any ideal of R then, T(ABC) = T(AC) + T(BC).

08