```
Ring homo 9:R -> R/I
 @ P/I -1 8=10 Haug Jon Chin, I = 07(1) : I=p7(0) = p7(5)
(3) TI: I J: ideal of R) -> {K: ideal of RII} is gettigents
 ·· Kin R, B(K) is ideal in R/I (: $: 204 its)
   Jisteal in R/I, $5-1(J) is ideal in R.
  (" \phi^{-1}(\bar{i}_1) - \phi^{-1}(\bar{j}_2) = \phi^{-1}(\bar{i}_1 - \bar{i}_2) \in \phi^{-1}(\bar{j}): Additive subgroup. — (1)
        r \cdot \phi^{-1}(i) \in R \Rightarrow \phi(r) \cdot j \in J \Rightarrow r \cdot \phi^{-1}(j) \in \phi^{-1}(j) \longrightarrow (2)
        Hence, $71(1) is ideal.)
 . . गाः खार्यस्
 @ Ø"(prime)=prime. .: Ø"(p1). Ø"(p2) = Ø"(+)p2) € Ø"(+)
                              \Rightarrow f_1 \text{ or } f_2 \in \rho \Rightarrow \varphi^{-1}(p_1) \text{ or } \varphi^{-1}(p_2) \in \varphi^{-1}(p)
 6) 9-1 (Max) = MAX.
: 刊韵173: め1(max) + max => の1(max) & J& J& ( Fileal J )
                                 => MAX S Ø(J) S Ø(R)=R/I (Fiden) Ø(S))
 olem fideal in ky (-) fideal in R/I3 0122,
 \phi(\phi''(m_{X})) \neq \phi(\bar{j}) \neq \phi(\bar{k})
\gamma \Rightarrow m_{X} = \gamma \in \mathcal{K}(\bar{j})
   MAX 年 Ø(J) 年 R/I (: MAXY4 Ø(J) + 41 是 程 中四里)
```

