05-05.23 froblem 3. H(0) = ft det = - 0.8h (k. 2max) H(2max) = f2 (1 0) (H(0)) + (0 0) (H(3max)) = (f1) (y) (B(2max)) = (f2) 7 del (40) + (00) (ch (62m) -0 sh(k2m)) =  $= \det \left( \begin{pmatrix} 1 & 0 \\ 0 & 0 \end{pmatrix} + \begin{pmatrix} 0 & 0 \\ \cosh(kz_m) & -\frac{1}{k} \sinh(kz_m) \end{pmatrix} \right) =$   $= \det \left( \frac{1}{\cosh(kz_m)} - \frac{1}{k} \sinh(kz_m) \right) = -\frac{1}{k} \sinh(kz_m)$   $= \det \left( \frac{1}{\cosh(kz_m)} - \frac{1}{k} \sinh(kz_m) \right) = -\frac{1}{k} \sinh(kz_m)$   $= \frac{1}{k} \sinh(kz_m) + \frac{1}{k} \sinh(kz_m) + \frac{1}{k} \sinh(kz_m)$   $= \frac{1}{k} \sinh(kz_m) + \frac{1}{k} h_m + \frac{1}{k} h_m$  $\left(\frac{1}{\text{ch}(Kz_m)} - \frac{0}{\text{ksh}(Kz_m)}\right)\left(\frac{\pi_y}{x_2}\right) = \left(\frac{\sqrt{4}}{2}\right)$ 71= f1 21 ch(Kom)-25 csh(Kom) = f2 22 = f1 ch(Kom) - f2 - 8h(Kom) R 8h(Kom) D (3) = e<sup>3</sup>L.X

(i) = (e) (12) - Tsh(kzm) fr
(i) + (kzm) freh(kzm) freh(kzm) freh(kzm) (12) H(Z) = f1.ch(kzm) + f3/10 = f2 - f1 ch(kzm) = f2 B(B) = f\_ (Who she (KZm) + Ch(K2m) [ fgch(KZm)-f2] = = find 40 sh(KZm) + Kch(KZm) [fich(KZm)-f2]=

Sh(KZm) - f2 |=

Sh(KZm) - f2 |= = f1 wo gh(ktm)+ K fieth(ktm).eh(ktm)-f2.eth(ktm)) (= (1-i) 7 Wyo 0 H(Z) = freh(kZ) + sh(kZn)(f2-f1ch(kzm))
3h(kzm) E(2) = f1· in 40 sh(k2) + ch(k2)(f1ch(k2m)-f2)