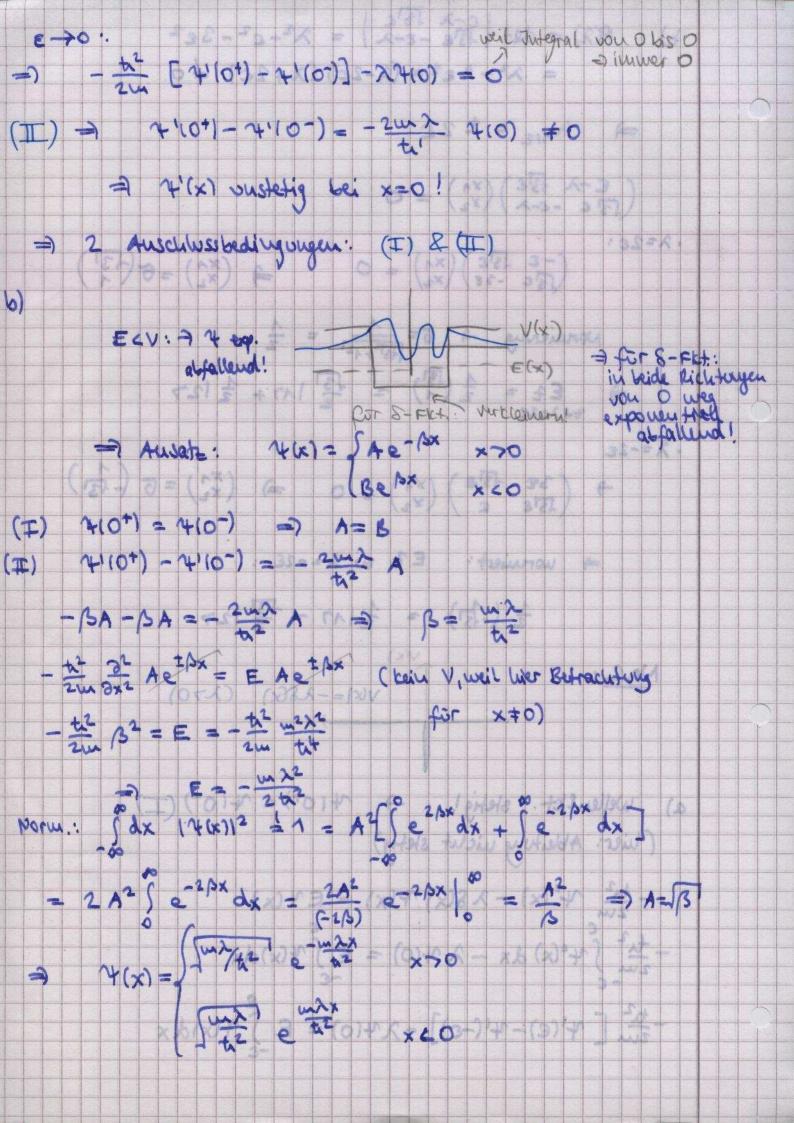


b) 
$$A(\lambda) = det \left( \frac{1}{13}e^{-\frac{1}13}e^{-\frac{$$



c) E70 (= E7V) 14(x) = { eikx + l(E) e ikx x > 0 (I) 4(0+)=4(0-) => 1+R(E)=T(E) (II) 41(0+)-410-)=-2 mg 410) ik T(E) - (ik - ik R(E)) = - 2012 (1+ R(E)) = 1+R(E) (1+R-1+R)  $ik = -2m\lambda (1+R)$   $2Rik = -2m\lambda (1+R)$ r(E) = | L(E)|2 = 1+ 2th = 1+ 2th E T(E) = 1+ R(E) = 1kt2
1+ 1kt2
1+ 1kt2 k2ti / w2x2 t(E)= |T(E)|2 = 1+ ZHE Nr.3: V(x)=-28(x); 4(var)(x/3)= 2 2 1= - 12 22 - 28(x) Elvar) (b) = < r(var) ( A) 1 + (var) rational atendos the mith we all ( + + ) wit = 3 1900cm

(ii) 
$$(A)_{xx} = -\frac{1}{2} \frac{1}{2} \frac{1$$

