HW2 (1) Diero palding for x. A=[001.23431100] my E receive yin], and man far to right, multiply by A: -2 = 2] M(M+2V2) = [2 4 4 4 0 -4 -4 -4] (xm y savine @ son predting for 7: 0 (M+21/4)×(M+21/2) 180° rotate of and more from to left to bettom right, multiply by A. ) (M+2N-2) × (M+2N-2) 1-3-13-204] -3 -11-+ 8 to 3 17 -> full 3-13-3-242) (M+N-1) x (M+N-1)

(3) mild is g = inptor(x, y, onv, full) or 'some 可以发现的果与有面一致。 交发性: >\*+=+\* pod (#1)=(00000020101000007 XEN7=[1234]2]] -> => +xx=[24445-+4-4-2] 新智性 2=[123] (xxx) \* 5 = xx(4xx) (xx+)=[24490-4-4-4-2] (xx+)x3=[1]1824208-12-14-22-16-67 (48) = 1 2 4 4 -4 -67 Xx(+xE)=[281824208-12-24-22-16-6]= (xx+)x3 '为面已性' X\*++ x\*= x\*(1+8) (x=2)= +1 4 10 16 10 20 14 8 37 Xx1+xx3=[] 8 1+ 10 50 1+ 10 4 1] # 2= [ 3 1 1] Xx(3+2)=[] 8 14 20 10 (p 10 + 1] = xxx + xxx

(4) 217 [FE: (a/X x))=[+[-], X:[]-[ 2 [ ] 2 [ dim (xx) = (A+-1) x (N+A+) x: MXV y: mxn 2. 11) a Linear : H close under O Addition : H[f(t)+g(t)] = H[f(t)] + H[g(t)] & Scalar Multiplication. 4[aft) = a H[ft] 5. Time-Invariant: If HTf(1)] = 8(t), Hen HEf(t-a)] = 7(t-a) for any a FIR To [00 12 34 32 100 7 T (N+2N-2) -2 = 2 ] (1+V-1)x(N+2N-2) then 2[n] = x[n] \* x[n] = A.I. (3) 是的,将各种统制新行是却一个信号及在到右移共州外的 新只有动一步,从而构成 A, 将 A 3 200 pullig后 都书·信号相来, 即行管怀。此时不是一个代准交换。 (4) Si unit impulse x[n] = = x(k) In-k], Locat the region of 8, h= H(8[n]) ([JAN]3[HX])=4(=(NX))+=[M] = E XLH H(S[n-h]) -> linerity (xild as sealer) = 2 x[k] h[r] -> Time invariant

:、我们可以因过 x. 从 图到 x时

= (x+h)[1]

3. Laplacian:

$$\vec{y} = \frac{\partial f}{\partial x} + \frac{\partial f}{\partial x} = [f(x+1)x) + f(x+1)x + f$$

4. a Solo((f) = -f(x1,7+1)-2f(x,7+1)-f(x+1,7+1) +f(x1,31)+2f(x,3-1)+f(x+1,71) b. solve((f) = -f(x+1, 7+1)-2f(x+1, 7)-f(x+1, 7+1) + f(x+1, y+1)+ 1+(x+1, y)+ +(x+1, y-1) 信奶matal 5、小均位、直接把所有条章相小再筒以远行家 山中值: a、对有个额,记来其个取到象组上,且来到高级 Tex bee & long b. art =0, laid =0, from (= [0, lugy]; 改为 if cnt /2 cut=cut+[(L) if Imax+1 is even Imid = (I[i]+I[i-1])/2if cot 2 4 Imid = I[i]laid = li

=> [mid 即为所求中值

且该弃恨好同数友的。(N)