

~ Find element

Claim 1: { Yn} Li(T)

Then { Re(Yn), Im(Yn)} is a real basis for

1 dix diy 1 tix diy 2

$$\int = \alpha_{1} \int + \alpha_{2} e^{ix} + \alpha_{3} e^{-ix} + \alpha_{4} e^{iy} + \alpha_{5} e^{iy} + \alpha_{6} e^{ix+iy}$$

$$\alpha_{1} = \lambda_{n,m} \int_{n,m} e^{-real}$$

$$\int = \int_{1}^{1} + i \int_{2}^{2}$$

$$9 = \int_{1}^{1} + \int_{2}^{2} = \alpha_{1} \int + \alpha_{2} (\cos(x) + \sin(x))$$

$$+ \alpha_{3} (\cos(x) - \sin(x))$$

$$+ \alpha_{4} (\cos(y) + \sin(y))$$

$$+ \alpha_{5} (\cos(y) - \sin(y))$$

$$+ \alpha_{6} (Re(e^{ix}) Re(e^{iy}) - In(e^{ix}) In(e^{iy})$$

$$+ (\cos(x) In(e^{iy}) + In(e^{ix}) Re(e^{iy})$$

$$= \sum_{i=1}^{n} (x_{i} \cos(x_{i}) \cos(y_{i}) - \sin(x_{i}) \cos(y_{i})$$

$$= \sum_{i=1}^{n} (x_{i} \cos(x_{i}) \cos(y_{i}) - \sin(x_{i}) \cos(y_{i})$$

$$+ \cos(x_{i} \sin(y_{i}) - \sin(x_{i}) \cos(y_{i})$$

$$+ \cos(x_{i} \sin(y_{i}) - \sin(x_{i}) \sin(y_{i})$$

$$||(m,n)||^{2} = 2$$

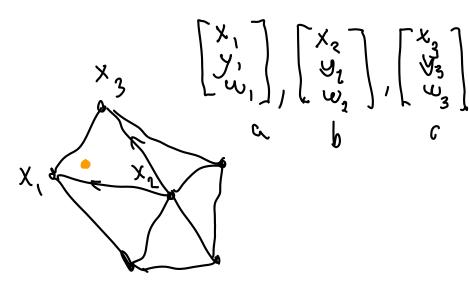
$$||(m$$

Mål: Givet N = 2k+1 og N=2 k>c

$$fyld$$
 matrix med egenverages  
 $-\Delta (e^{inx}e^{imy}) = (n^2 + m^2)e^{inx}e^{imy}$ 

$$w(xq, yq) = Zerog$$

For each element



$$n = (\alpha - b) \times (c - b), \quad n = \frac{n_3}{n_3}.$$

$$0 = n_1(x_1 - x_2) + n_1(y_1 - y_1) + n_2(w(x_1, y_1 - w_1))$$

$$w(x_1, y_1) = -n_1(x_1 - x_2) - n_2(y_1 - y_2) + w_2$$

$$which wints$$

1. Which points -> inpolygon
2. remove those Lording (v)

3,0M (xd 'Ad) 3. Find nodes for this elem. EtoV

4. Compute n.  $n = \frac{n}{n_a}$ 

5.  $\omega(x_{q_1}y_{q}) = -n_1(x_{q_1}x_{2}) - n_2(y_{q_1}y_{2}) + u_2$