3)
$$\begin{vmatrix} 1 & a+b & a^3+b^3 \\ 1 & b+c & b^3+c^3 \\ 1 & c+a & c^3+a^3 \end{vmatrix} = \begin{vmatrix} 1 & a+b & a^3+b^3 \\ 0 & c-a & c^3-a^3 \\ 0 & c-b & c^3-b^3 \end{vmatrix}$$

$$= \begin{vmatrix} 1 & c-a & c^3-a^3 \\ 1 & c-b & c^3-b^3 \end{vmatrix}$$

$$= \begin{vmatrix} 1 & c-a & c^3-b^3 \\ 1 & c-b & c^3-b^3 \end{vmatrix}$$

$$= (c-a)(c-b) \begin{vmatrix} 1 & c^2+ca+a^2 \\ 1 & c^2+bc+b^2 \end{vmatrix}$$

 $= (c - a)(c - b) \begin{vmatrix} 1 & c^2 + ac + a^2 \\ 0 & bc - ac - a^2 + b^2 \end{vmatrix}$

Dupt/Cn

$$\mathcal{D}_n = \begin{pmatrix} 1 & 0 \\ 0 & 1 \end{pmatrix}$$

$$\frac{E \times 2:}{n} \quad \text{Dipt} / C_n$$

$$D_n = \begin{vmatrix} 2 \cos \theta & 1 & 0 \\ 1 & 0 & 1 \\ 0 & 0 & 1 \end{vmatrix} = 2 \cos \theta \begin{vmatrix} 2 \cos \theta & 1 & 0 \\ 1 & 0 & 1 \\ 0 & 1 & 2 \cos \theta \end{vmatrix}$$

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$$D_{n} = 2 \cos \theta D_{n-1} - D_{n-2}$$

$$\chi^2 - 2 \cos \theta \times + \times = 0$$

$$0 = (-2 \cos \theta)^2 - 4$$

$$= 4 \cos^2 \theta - 4$$

$$= 4(\cos^2\theta - 1)$$

$$-\sin^2\theta \geqslant 0$$

$$Sin^2\theta = 0$$

$$\theta = k\pi, k \in \mathbb{Z}$$

$$-\sin^2\theta < D$$

$$\sin^2\theta > 0$$

Si
$$\theta = k\pi / k \in \mathbb{Z}$$
, $\Omega = 0$
 $n_0 = \frac{2\cos\theta}{2} = \cos\theta$
 $S_{k\pi} = \left((\lambda n + \mu) \cos^n \theta , (\lambda, \mu) \in \mathbb{Z}^2 \right)$

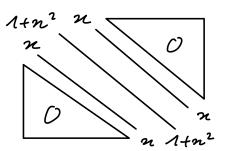
Si $\theta \in \mathbb{R} \setminus \{k\pi, k\in \mathbb{Z}^2\}$, $\Omega \leq 0$

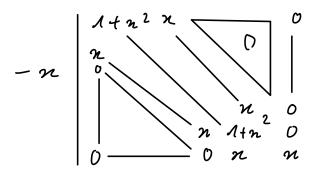
$$\pi_{1,2} = \frac{2\cos\theta \pm 2i\sqrt{1-\cos^2\theta}}{2}$$

$$= \cos\theta \pm i\sqrt{\sin^2\theta}$$

$$= \cos\theta \pm i|\sin\theta|$$

$$S_{n_{1},2} = \frac{1}{2} \left(\cos \theta \pm i \left(\sin \theta \right) \right)^{n} \left(A \cos (n\theta) + B \sin (n\theta) \right), (A,B) \in \mathbb{R}^{2} \right)$$

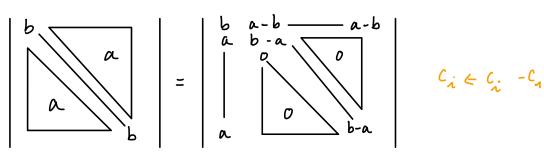




$$= (\Lambda + n^2) \mathcal{D}_{n-1} - \kappa^2 \mathcal{D}_{n-2}$$

$$\times^2 - (\Lambda + n^2) X + \kappa^2 = (X - \Lambda) (X - \kappa^2)$$

1) Si a = c

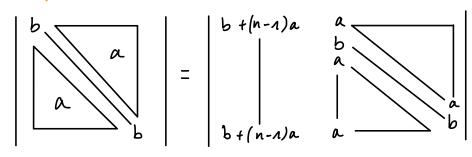


$$= \begin{vmatrix} b+a(n-1) & 0 & 0 \\ a & b-a & 0 \\ a & b-a & 0 \end{vmatrix}$$

$$= \begin{vmatrix} b+a(n-1) & 0 & 0 \\ a & b-a & 0 \\ b-a & 0 & 0 \end{vmatrix}$$

=
$$(b + a(n-1))(b-a)^{n-1}$$

ou: C1 & \(\sigma \)



$$= b + (n-1)a$$

$$\begin{vmatrix} 1 & a \\ b \\ 1 & a \end{vmatrix}$$

$$= \left(b + (n-1)a\right) \begin{vmatrix} 1 & a & --- & a \\ 0 & b-a & 0 \\ 0 & b-a \end{vmatrix}$$

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Soit ne R

$$J(n) = \begin{vmatrix} b+n & c+n & c+n \\ a+n & a+n & b+n \end{vmatrix}$$

) Ci E Ci - Ca

Evalue en -a et -c

$$\int (-a) = \begin{vmatrix} b-a & c-a \\ 0 & c-a \end{vmatrix} = (b-a)^n$$

$$\int (-c) = \begin{vmatrix} b-c \\ a-c \end{vmatrix} = (b-c)^n$$

$$\Delta = \frac{\int (-a) - \int (-c)}{-a+c}$$

$$\beta = f(-\alpha) + \alpha \alpha$$

$$\frac{d(n)}{d(n)} = \frac{d(n+a)}{d(b-c)^n} (n+a) + d(b-a)^n$$
=\frac{(b-a)^n - (b-c)^n}{-a+c} (n+a) + (b-a)^n

En particular,
$$\int_{a}^{b} (0) = \frac{(b-a)^n - (b-c)^n}{c-a} a + (b-a)^n$$
3)

Soit g: c \to > \begin{aligned}
b \, a \, b \, \left \, \left

Ex 4:

