(2.2) $\begin{vmatrix} a+b & a-b \\ a-b & a+b \end{vmatrix} = (a+b)^2 - (a-b)^2 = (a+b-a+b)(a+b+a-b) = 2b-2a = 4ab$ $\left| \frac{\cos \lambda - \sin \lambda}{\sin \lambda} \right| = -\cos^2 \lambda + \sin^2 \lambda = -\cos 2\lambda$ |a+bi| |a+bi| |a+bi| |a-bi| $|\cos t + i \sin t|$ 1 = $(\cos t + i \sin t)(\cos t - i \sin t) - 1 = (\cos^2 t - i^2 \sin^2 t) - 7 = 1$ $= \cos^2 t + \sin^2 t - 7 = 7 - 7 = 0$ $|2s;n\psi\cos\psi|$ $|2s;n\psi\cos\psi|$ $|2s;n\psi\cos\psi|$ $|2s;n\psi\cos\psi|$ $|2s;n\psi\cos\psi|$ $|2s;n\psi\cos\psi|$ $|2s;n\psi\cos\psi|$ $|2s;n\psi\cos\psi|$ $|2s;n\psi\cos\psi|$ $|2s;n\psi\cos\psi|$

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 $\frac{1-t^{2}}{1+t^{2}} \frac{2t}{1+t^{2}} = \frac{(1-t^{2})^{2}}{(1+t^{2})^{2}} + \frac{4t^{2}}{(1+t^{2})^{2}} = \frac{1-2t^{2}+t^{4}+4t^{2}}{(1+t^{2})^{2}} = \frac{(1+t^{2})^{2}}{(1+t^{2})^{2}} = 1$ det[A]= x2+x+4x+4= x2+5x+4=0 D= 25-16=9 $x_1 = \frac{-5+3}{2} = -1$ Orlen: -1; 4 $|\cos 8x - \sin 5x| = \cos 8x \cdot \cos 5x + \sin 8x \cdot \sin 5x = 0$ $|\sin 8x - \cos 5x| = \cos 8x \cdot \cos 5x + \sin 8x \cdot \sin 5x = 0$ 3x= = = > x= 6 3x= = =+251V, (62 => =>X= = + 3 TK KBS 2.12/ $\begin{vmatrix} 1 & 2 & 3 \\ 4 & 5 & 6 \\ 7 & 9 & 9 \end{vmatrix} = 1 \begin{vmatrix} 56 \\ 89 \end{vmatrix} - 2 \begin{vmatrix} 76 \\ 79 \end{vmatrix} + 3 \begin{vmatrix} 75 \\ 78 \end{vmatrix} = 45 - 48 - 2 \cdot (36 - 42) + 3 \cdot (32 - 35) = 48 - 2 \cdot (36 - 42) + 3 \cdot (32 - 35) = 48 - 2 \cdot (36 - 42) + 3 \cdot (32 - 35) = 48 - 2 \cdot (36 - 42) + 3 \cdot (32 - 35) = 48 - 2 \cdot (36 - 42) + 3 \cdot (32 - 35) = 48 - 2 \cdot (36 - 42) + 3 \cdot (32 - 35) = 48 - 2 \cdot (36 - 42) + 3 \cdot (32 - 35) = 48 - 2 \cdot (36 - 42) + 3 \cdot (32 - 35) = 48 - 2 \cdot (36 - 42) + 3 \cdot (32 - 35) = 48 - 2 \cdot (36 - 42) + 3 \cdot (32 - 35) = 48 - 2 \cdot (36 - 42) + 3 \cdot (32 - 35) = 48 - 2 \cdot (36 - 42) + 3 \cdot (32 - 35) = 48 - 2 \cdot (36 - 42) + 3 \cdot (36 - 42)$ | 3 4 -5 | 8 7 -2 | = 3 | 7 -2 | -4 | 8 -2 | -5 | 8 7 | = 3. (56 - 2) - 4 (64 + 4) - 5 (-8 - 14) = 2 -1 8 | -1 8 | -4 | 2 8 | -5 | 2 -1 | = 3. (56 - 2) - 4 (64 + 4) - 5 (-8 - 14) = = 3.54 - 4.68 + 5.22 - 162 - 272 + 770 = 0

- x2c - x26 = abc + abx + acx + xbc + 62 + 20 = 20 = 26 = abc+abx+acx+xbc 72.157 $| J^{2}+1 | J^{2} | J^{2} |$ $| J^{2}+1 | J^{2} | J^{2}+1 | J^{$ + dr (dp2r-dr B2-dr)= 22x2+222+22+82+1-282-222= 22+82+12+1 sind cost Sing cosp 1 = sind cosp 1 | - cosd sing 1 + 1 sing cosp = siny cosp 1 = sind (cosp-cosyl-cost(sing-siny) + singeosy-sinycosp= = Sind cosp - sind cosr - sing cosd + sing cosd + sing cosy - sing cosp = = (sindcosp-sinpcosd)+(sinpcosd-sindcosy)+(sinpcosy-sinycosp)= = sin(d-B) + sin(7-d)+sin(8-8)

2.1] {= cos = +i-sin 3 $\begin{vmatrix} 1 & 1 & \xi \\ 1 & 1 & \xi^{2} \\ \vdots & 1 & 1 \end{vmatrix} = 1 \begin{vmatrix} 1 & \xi^{2} \\ \xi & 1 \end{vmatrix} = 1 \begin{vmatrix} 1 & \xi^{2} \\ \xi & 1 \end{vmatrix} + \xi \begin{vmatrix} 1 & 1 \\ \xi^{2} & \xi \end{vmatrix} = 1 - \xi^{3} - 1 + \xi^{4} + \xi \left[\xi - \xi^{2} \right] = \xi^{4} + \xi^{2} - 2\xi^{3}$ $= 1 - \xi^{3} - 1 + \xi^{4} + \xi^{2} - \xi^{3} = \xi^{4} + \xi^{2} - 2\xi^{3}$ [cos 3 + i.sin 27] + [cos 3+i.sin 3] - 2. [cos 3 + i.sin 3] $\begin{vmatrix} 1 & 7 & 7 \\ 1 & \beta & \beta^{2} \end{vmatrix} = 1 \begin{vmatrix} \beta & \beta^{2} \\ \beta^{2} & \beta \end{vmatrix} - 1 \begin{vmatrix} 1 & \beta^{2} \\ 1 & \beta^{2} \end{vmatrix} + 1 \begin{vmatrix} 1 & \beta^{2} \\ 1 & \beta^{2} \end{vmatrix} = \beta^{2} - \beta^{4} - \beta + \beta^{2} + \beta^{2} - \beta^{2}$ $=3\beta^2-2\beta-\beta^4$ [2.19] $\begin{vmatrix} 3 \times -x \\ 2 - 1 & 3 \\ = 0 = 3 \begin{vmatrix} -1 & 3 \\ 1 & 1 \end{vmatrix} - x \begin{vmatrix} 2 & 3 \\ x+10 & 1 \end{vmatrix} - x \begin{vmatrix} 2 & -1 \\ x+10 & 1 \end{vmatrix} = 3 \cdot (-1-3) - x (2-3x-30)$ $x+10 \quad 1 \quad 1 - x (2+x+10) = 42 \cdot 2xx - 12 + 28x + 3x^2 - 12x - x^2 = 1$ $=2x^2+16x-12=x^2+8x-6$ D= 64+36=100 X1= 2 = 1 x2 = -8-10 = -9 Chilem: 1; -9

