4. Compuseti dona oscilati armonice paralele prin netodele: farorida, trigoronetrica, a numere los complete. J-8000000 m A2 a) Digonometric (wtrx) $2 \times = A_1 + OS (cot + x_1)$ $2 \times 2 = A_2 + COS (cot + x_2)$ h,= h, $X_1+X_2=A cos(cot+\infty)=X$ $A=7 \propto = 7$ X,+X2 = A, cos cotcosa, -A, sin cot sina, +A2 cos cotcosa= - Az sin cot sindz = A Coscot Cosa - A sin w t sina => $= \int A \cos \alpha = A_1 \cos \alpha_1 + A_2 \cos \alpha_2 = \int A^2 \cos^2 \alpha = A_1 \cos^2 \alpha_1 + A_2 \cos^2 \alpha_2 + A_3 \cos^2 \alpha_2 + A_4 \cos^2 \alpha_1 + A_5 \cos^2 \alpha_2 + A_5 \cos^2 \alpha_2 + A_5 \cos^2 \alpha_1 + A_5 \cos^2 \alpha_2 + A_5 \cos^2 \alpha_2 + A_5 \cos^2 \alpha_1 + A_5 \cos^2 \alpha_2 + A_5 \cos^2 \alpha_2 + A_5 \cos^2 \alpha_1 + A_5 \cos^2 \alpha_2 + A_5 \cos^2 \alpha_2 + A_5 \cos^2 \alpha_1 + A_5 \cos^2 \alpha_2 + A_5 \cos^2 \alpha_2 + A_5 \cos^2 \alpha_1 + A_5 \cos^2 \alpha_2 + A_5 \cos^2 \alpha_2 + A_5 \cos^2 \alpha_1 + A_5 \cos^2 \alpha_2 + A_5 \cos^2 \alpha_2 + A_5 \cos^2 \alpha_1 + A_5 \cos^2 \alpha_2 + A_5 \cos^2 \alpha_2 + A_5 \cos^2 \alpha_1 + A_5 \cos^2 \alpha_2 + A_5 \cos^2 \alpha_2 + A_5 \cos^2 \alpha_1 + A_5 \cos^2 \alpha_2 + A_5 \cos^2 \alpha_3 + A_5 \cos^$ + $2AK_{2}X_{1}$ CosX₁ CosX₂ CosX₂ + x_{1} X = $A_{1}^{2}+A_{2}^{2}+2A_{1}A_{2}$ (cosX₁ cosX₂ + x_{1} X SinX₁) + Africa sinds => A= A1+A2+2AAQ COS (X1-X2) A= VA3+A2+2AA2 cos(x1-x2) $t_{yx} = \frac{A_1 \sin x_1 + A_2 \sin x_2}{A_1 \cos x_1 + A_2 \cos x_2} \Rightarrow x = \cot t_y$ Aisinay+Az Cosaz A, LOSON +Az COSON b) Fastorial $A_1 + A_2 = A_1 = A_2$ = $A_1 + A_2 + A_2 + A_3 + A_4 = A_4$ a le = lallel cos (qu)

