PROBLEM AG

PLOT THE RADATION PATHERY OF A UNIFORM LINEAR ARRAY OF ISOTROPIC RADIATIONS

MANING THE FOLLOWING PARAMETERS: NUMBER OF ISOTROPIC RADIATIONS = 5,

JEPARATION BETWEEN NEIGHBOURING RADIATORS = 2 mm, PHASE DIFFERENCE RETWEEN

NEIGHBOURING RADIATORS = -9TT/5 AND WORKING FREQUENCY = 60 G the

(solution)

$$\lambda = \frac{2}{6} = \frac{3 \log^{3} = 5 \log^{3} m}{60 \log^{3} = 5 \log^{3} m} = 5 m$$
 $\Delta = 2 m$ $\Delta = \frac{6}{5} \pi$

THERE IS ODLY DUE MAXIMUM DIRECTION (e=0°

$$h=1$$
 $\varphi=\pm\frac{2\pi}{4}=\pm\frac{\pi}{2}$ $\frac{\zeta}{3}\pi\left(\cos(\zeta-1)=\pm\frac{\pi}{2}\right)$

$$ces c = 1 + \frac{1}{8}$$
 no solution

$$cose = 1 - 3 = \frac{3}{6}$$
 $e = 9cos(\frac{3}{6}) = \pm 68^{\circ}$

