PROBLEM A3

PLOT THE RADITION PATHERY OF AN ARMY OF 2 ISOTROPIC RADITIONS; THE CURRENTS
FEEDING THE 3 RADITIONS ARE IN PHASE ALL THE DISTANCE BETWEEN TWO ADJUCENTS
RADITIORS IS 9 CM. THE ONORRODE TREQUENCY IS 3,8 GHZ

SOLUTION

THE STUCKE AUTHURY ARE ISOTROPIC RAWAS TORT : THE TOTAL WARMANDED RADIATION

$$\psi = 0 \Rightarrow \frac{2\pi}{\lambda} l \cos k = 0$$

$$(a) (a = a) = \frac{\pi}{2} \quad (a = \pm 30^{\circ})$$

$$\varphi = \pm 2\pi \qquad \qquad 2\pi \left(\cos \alpha = \pm 2\pi \right)$$

COSCE =
$$\frac{1}{\lambda}$$
 = $\frac{1}{\lambda}$ = $\frac{1}{\lambda}$

THE MAXIMA ANT OBTAINED FOR a = ± 90°

