23/04/2021 Radiation Partenne Recall Power pattern = (Voltage pattern)? Pn (6) - [Vn(0)] [a,] P = 1/2] - 3 dB, ie, 0.5 = 70.7% or 0.707

points

for beamwaln for beamwaln

o.5 = (0.707) (Beam) svid angle: dSZ= Sinodods => 25 = [98] swodg

seam area TLAT (PMCO, A) AM onee 12 (0,0) = V2 (0,4)

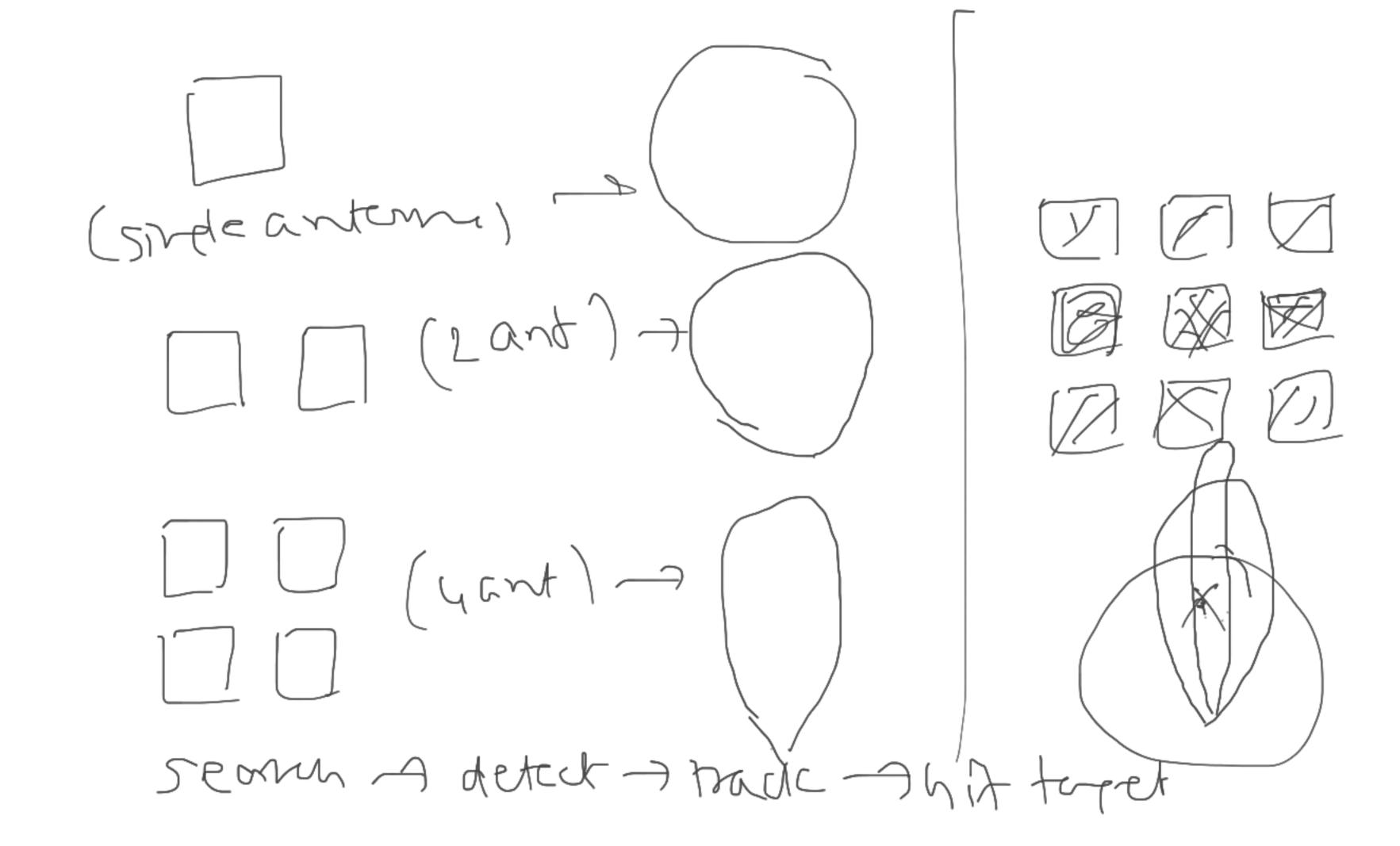
=(0)=(0)Now, 1,(0) = (NO) = (J) du Now, 1,(0) = (NO) = (J) O

 $\int \Omega_{A} = -2\pi \left[\frac{1}{15} \cos^{50} \right] \sqrt{N_{2}}$ $\int_{A} = \frac{2\pi}{5} = \frac{2\times 3.17}{5} = 1-265V$ once can also be appropriated JAN WOHP PHP TO promuhoul praves (DDA) FOR PAP OHP Z PHP Z 66

then MA = OHP PHP = 66 × 66 = 59 mar depart Br 1 Sq radion = 3283 Sq. deplex Cgr 1 St) -- 1-33 Sy 3836 = 1-33 Sy

Beam exitation (E) E= Jm (dimensionally) where sign = beam are of main beam lobe or been To James of some (Sobre) Main

Directive & aging of Antonna Single : = ods 120/ More form 120



Array of antenna - Advandage 2 or more ante -> to increase directionly les peans more direction -> to incrave Sam

ación (a) X Direction 5 (D) \rightarrow $C_1 = C_1$ C/AB = E/AB + D/AR

How to measure antenna gain (G) no well desired Do well delined (poor 2 jdenticel then Cit = C For lossien antenna, ilcar = ((r,co,p)d) mend NISTNO do de to 12 (0) - V2 (0)

NA ZOHP PHP Sq depres depres depres = 41,253 2 41, 253 = no of squar, deregimente = 4x (180) sq drepre x3183=41,253

HABM in 2 planes is 20° eaun 1e, OHR = 20° D= 4R(SV) ~ (SV) TA(SV) ~ OHPPHP 41,253 200 X 200 (dimension) = 101v7 (100) = 20dB

=(0)\$) = 51n0-5mp V (0,4) $5 \leq 0 \leq \pi$ That exact directions to appoint arrestment 51m0 = 0 HPBW = 90°

Hpprop. Direct win D= 41,253 = 41253 = 5-1 OHP PMP = 90°×98 D/as=1012(5-1) Exact Direct Wo

 $D = \frac{4\pi}{\sqrt{n}} = \frac{4\pi}{\sqrt{n}$

FMantenva (75 cm/4) $\frac{1}{1}$ $\frac{1}$ The Image effice

ールニアルー Varte minor) valtre mas

Microstap (ar Printa antenne)

Drin (Imar)