magnitude of poynting

To write in terms of \tilde{E} only $H = \sqrt{\frac{20}{\mu_0}} E$ $P = \sqrt{\frac{1}{2}} \sum_{m=1}^{\infty} \left(\frac{1}{2}\right)$

where £ TB ore

perp (free spece) & p

points redictly out from

the point source

plugging in a solving for

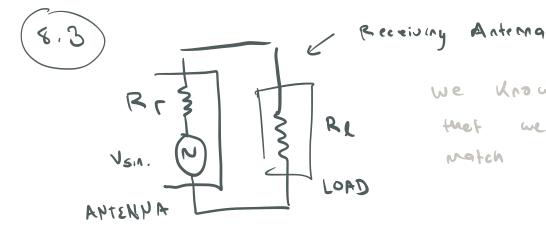
Enax = [Feo . ZIP]

1/2!

for the overage of

a all vove equoned

= 0.24 VM

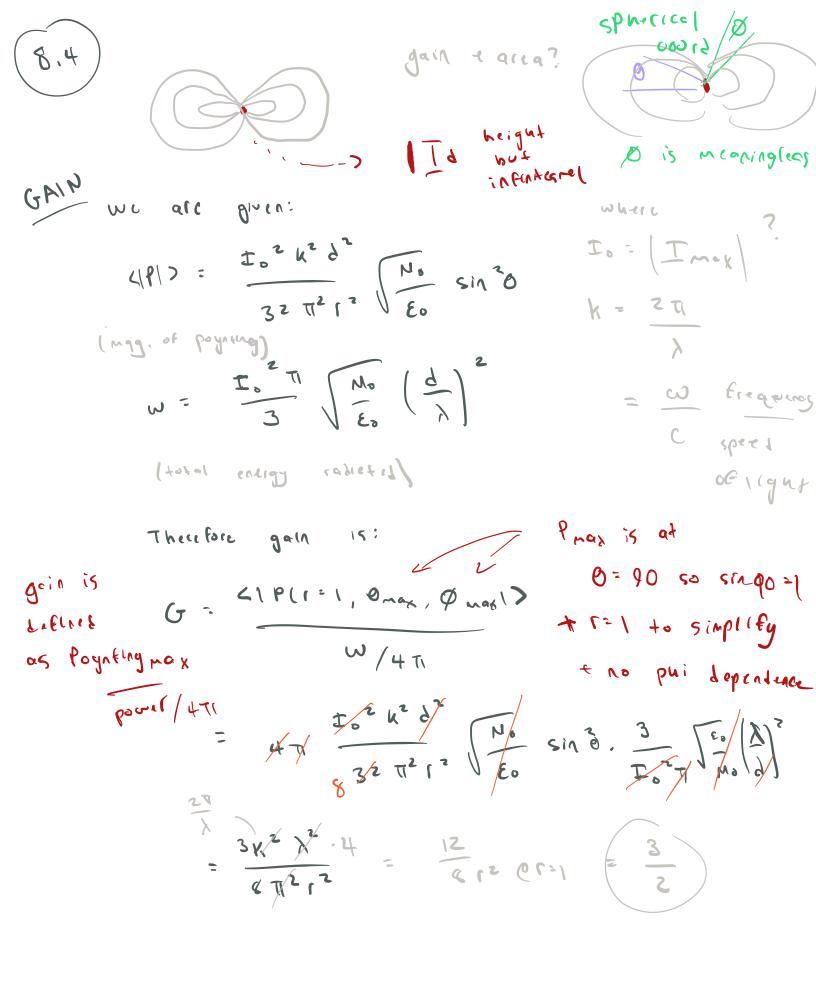


Re that we want on impedance match to minimize reflection

from Ohm's law

clossic peak is at 0 derivotive problem

da · b + a · db



we know Prox = 12/4R (a)

SD A=
$$\frac{2V^2}{8RE_{reg}^2}\sqrt{\frac{m_o}{\epsilon_o}}$$
 Real = $\frac{2\pi}{3}\sqrt{\frac{d^2}{\epsilon_o}}$

$$= \frac{3}{8\pi} \frac{V^2}{E_{\text{mov}}} \left(\frac{\lambda}{a}\right)^2$$

for an infinitrone length & E will be constant (mox) across it. so we know from last wark V=-(=.7] :. V = Emax - 2

$$= \sqrt{\frac{3}{8\pi}} \sqrt{2}$$

$$= \frac{3}{8\pi} \frac{1}{12} \frac{3}{8\pi} \frac{1}{12} \left(\frac{3}{2}\right)^{-1}$$

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