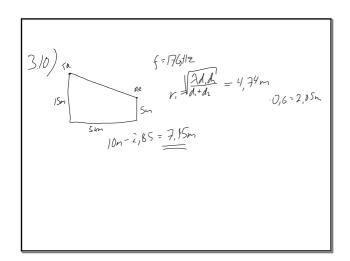
3.7)
$$c = \frac{c_0}{\sqrt{\epsilon_r}} = \frac{c_0}{2} \approx 1.5 \cdot 10^8 \,\text{m/s}$$

 $r = \frac{c}{f} \approx 0.1666 \,\text{m}$

3.8)
$$n_{r}$$
 n_{r} n_{r}

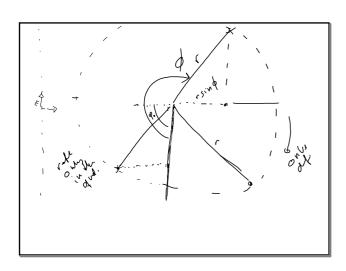
feb 12-08:56 feb 12-11:18



$$(4.5) G = \frac{4\pi}{a^2} A_0 = 4\pi (\frac{1}{2})^{\frac{3}{2}} a \cdot b$$

$$G_{1ij} = 19 a^{\frac{3}{2}}$$

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feb 12-11:39