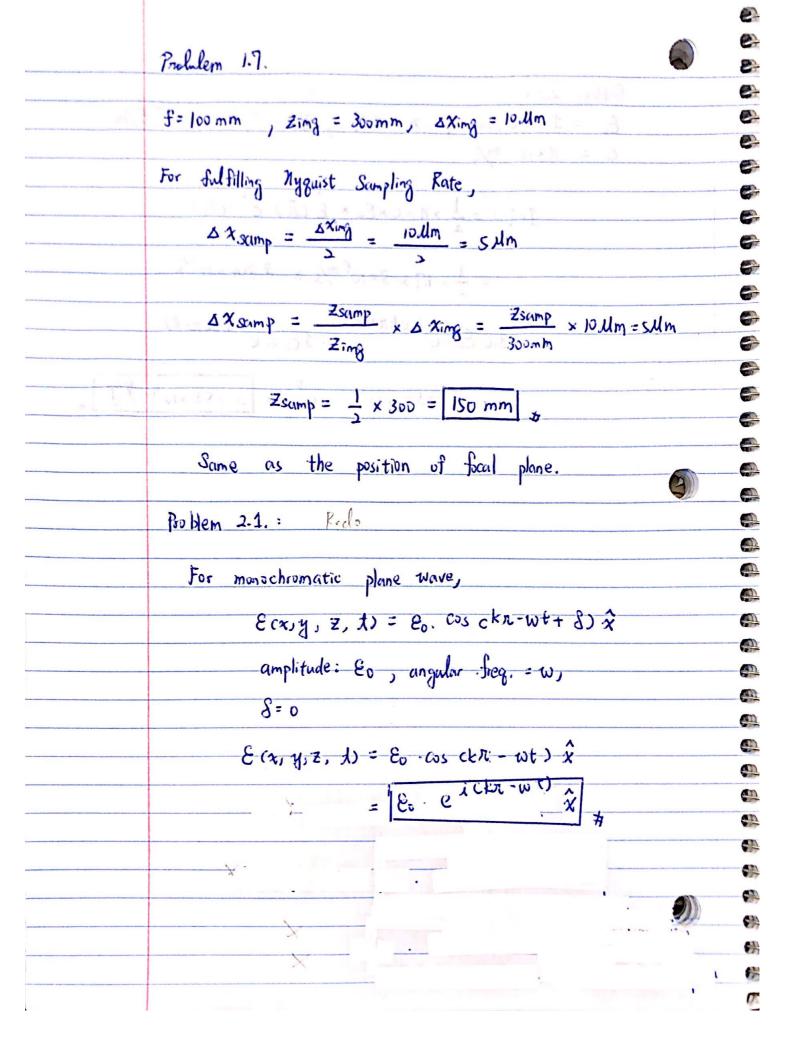
## **ENGN1930B HW3**

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Problem 2,2:
Eu = 1.0 V/m, $n = 1.7$ , $E_0 = 8.854 \times 10^{-3} E/m$
Eu = 1.0 U/m, 2 = 1.1, 20 = 1.43 + 2.2 0/m,
$c = 3 \times 10^8  \text{m/s}$
$J(\vec{n}) = \frac{1}{2} \times n \times C \times \varepsilon_0 \times \vec{\varepsilon}(\vec{n}) \vec{\varepsilon}^*(\vec{n})$
2
2 m/ . 2 cr4 × 12 x/
= 1 × 1.7 × 3× 10 m/s × 8.854 × 10 25/m
: 01-18)
1.0 ym·e - 1.0 ym e - 1 ck nt 8)
= 2.258 ×109. e = 2.258 ×109 W/3
= 1.230 XIV . E - 3.230 XIV
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