Special Problem IV.B-2

A plane wave propagating in the x-direction passes through a material with dielectric constant $\varepsilon_r=4+j4$.

If
$$\lambda$$
 = 10 cm and $\left| \overline{W} (x = 0) \right| = 1 \text{ W/m}^2$, what is $\left| \overline{W} (x = 1) \right|$?