Homework 4.

1) A wave is incident at an angle of $30^{\circ}$ from air to Teflon ( $\varepsilon_{r}=2.1$ ). Calculate the angle of transmission, and repeat with an interchange of the regions.
2) In question (1), find the critical angle for a wave propagating from Teflon into free space.
3) Find the Brewster angle for a parallel-polarized wave traveling from air into glass for which $\varepsilon_{r}=5.0$.
