Name (Last, First) ....
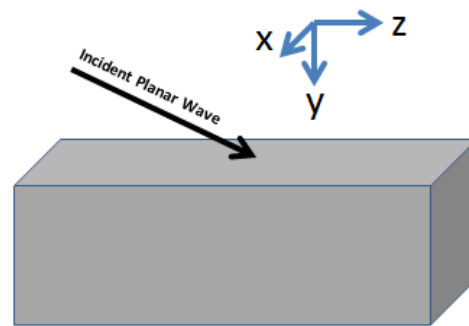
A plane wave with $\tilde{E}^i = \hat{x}e^{-j(y+2z)}$ (V/m) is incident upon a planar surface occupying the half-space $y \ge 0$. Determine the polarization of the incident wave.

Since E^i is along $\hat{x}$, which is perpendicular to the plane of incident, the wave is perpendicularly polarized.