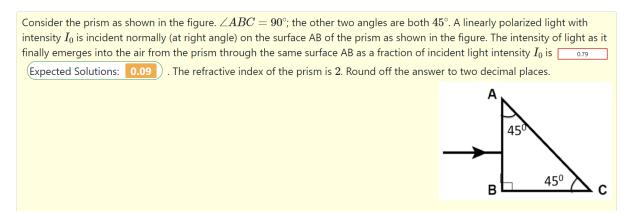
Ques1.



Ques2.

Consider a circularly polarized electromagnetic plane wave traveling along the z-direction in free space which is described by the \vec{E} field (in SI units) as $\vec{E}(\vec{r},t)=10^4[\sin(\omega t-2\pi\times 10^4z)\hat{x}-\cos(\omega t-2\pi\times 10^4z)\hat{y}]$. Now we place a perfectly conducting plate at z=0. The radiation pressure acting on the plate is $m\times 10^n\,\mathrm{Nm}^{-2}$, where m and n are single digit integers. The values of m and n are spectricely.

Ques3.

Ques4.