From Verdeyen:

1. Problem 1.4
2. Problem 1.5
3. Problem 1.7

4. A laser crystal (having refractive index n) and length L is Brewster cut such that the incident beam at $\theta_B$ emerges parallel to the crystal sides as shown in the Fig.

What is the angle $\alpha$? What is the beam’s lateral deviation ($\delta a$) in terms of n and L?

5. Show that:
   - Photon energy $E(eV) \sim 1.24/\lambda(\mu m)$,
   - Electric field $E_0(V/cm) \sim 27[I(W/cm^2)/n]^{1/2}$,
where $\lambda$ is the wavelength, $I$ is the irradiance and n is the refractive index. 
Try to memorize these useful relations.