1. When light passes from air into water at an angle of $60^{\circ}$ from the normal, what is the angle of refraction? (40.6 ${ }^{\circ}$ )
2. When light passes from air into water at an angle of $30^{\circ}$ from the normal, what is the angle of refraction? (22.1 ${ }^{\circ}$ )
3. When light passes from water into diamond at an angle of $45^{\circ}$ from the normal, what is the angle of refraction? $\left(22.9^{\circ}\right)$
4. The refractive index of the lens of the human eye is 1.41 . If a ray of light goes from the air into the lens at an angle of $55^{\circ}$, what is the angle of refraction? $\left(35.5^{\circ}\right)$
5. In an experiment, a block of cubic zirconia is placed in water. A laser beam is passed from the water through the cubic zirconia. The angle of incidence is $50^{\circ}$, and the angle of refraction is $27^{\circ}$. What is the index of refraction of this cubic zirconia? (2.24)
6. A ray of light approaches a jar of honey at an angle of $30^{\circ}$. If the angle of refraction is $19.5^{\circ}$, what is the refractive index of honey? (1.50)
7. A block of amber is placed in water and a laser beam travels from the water through the amber. The angle of incidence is $35^{\circ}$ while the angle of refraction is $24^{\circ}$. What is the index of refraction of amber? (1.88)
8. A red laser beam travels from flint glass into lemon oil. The angle of incidence is $40^{\circ}$ and the angle of reflection is $44^{\circ}$. What is the refractive index of lemon oil? (1.49)
