Physics 11 - Practice Questions

Unit: 7.5

1. Light is incident (from air) on a diamond at an angle of 10.0o. At what angle will it refract?
2. Light speed in a vacuum is 3.00 x 108 m/s. How fast does light travel in diamond, if the index of refraction is 2.42?
3. Light travels with a speed of 1.95 x 108 m/s in a quartz crystal. What is the index of refraction of the quartz crystal?
4. What is the critical angle of a glass, if its index of refraction of is 1.58?
5. A certain material has a critical angle of 52.0o. What is its index of refraction?
6. What is the critical angle of a glass, if its index of refraction is 1.58?