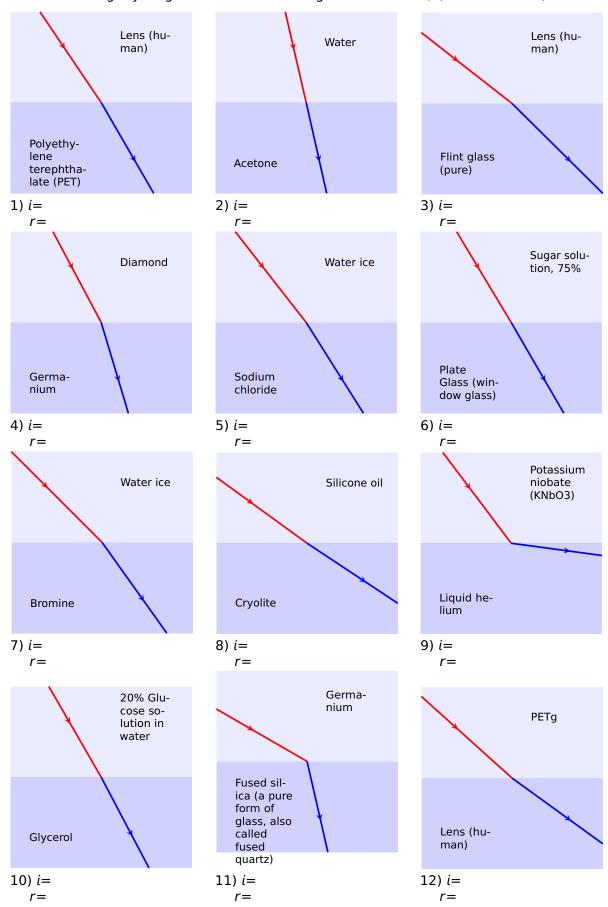
Measuring Angles Refraction

For each of the following ray diagrams measure the angles of incidence, i, and refraction, r.



**Measuring Angles** Refraction

## **Answers**

- 1)  $i=34^{\circ}$ ,  $r=30^{\circ}$
- 2)  $i=13^{\circ}, r=13^{\circ}$
- 3)  $i=52^{\circ}$ ,  $r=45^{\circ}$
- 4)  $i=28^{\circ}$ ,  $r=17^{\circ}$
- 5) *i*=38°, *r*=32° 6) *i*=31°, *r*=30°
- 7)  $i=45^{\circ}, r=35^{\circ}$
- 8)  $i=54^{\circ}$ ,  $r=57^{\circ}$
- 9) *i*=37°, *r*=82°
- 10)  $i=30^{\circ}, r=28^{\circ}$
- 11)  $i=60^{\circ}$ ,  $r=13^{\circ}$ 12)  $i=48^{\circ}, r=54^{\circ}$