

Chapter 23

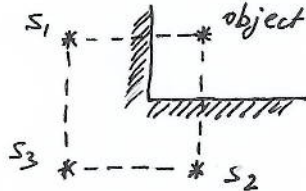
23.12

$$v_{\text{image}} = 2 \text{ m/s}$$

23.22

Outgoing light ray is anti-parallel w/ the incoming one

23.23



23.46

$$\theta_i = 53.1^\circ, \theta_c = 48.6^\circ \Rightarrow \text{invisible}$$

23.48

$$n_t = 1.54, v = 1.95 \times 10^8 \text{ m/s}$$

23.50

$$n_i^{\text{min}} = 1.4$$

23.60

$$\theta_c = 24^\circ$$

23.66

water-plexiglass: $\theta_c = 62^\circ$
No internal reflection on the boundary
between the prism and carbon disulfide