

58. We use Eq. 35-8 (and Fig. 35-10(d) is useful), with  $n_1 = 1.6$  and  $n_2 = 1$  (using the rounded-off value for air).

$$\frac{1.6}{p} + \frac{1}{i} = \frac{1 - 1.6}{r}$$

Using the sign convention for  $r$  stated in the paragraph following Eq. 35-8 (so that  $r = -5.0$  cm), we obtain  $i = -2.4$  cm for objects at  $p = 3.0$  cm. Returning to Fig. 35-52 (and noting the location of the observer), we conclude that the tabletop seems 7.4 cm away.