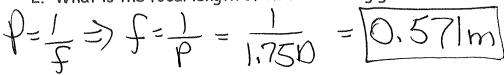
Practice - 25.6 Image Formation by Lenses Part 1

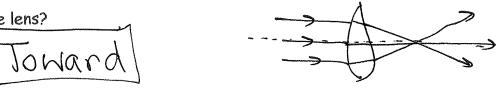
1. What is the power in diopters of a camera lens that has a 50.0 mm focal length?

$$\rho = \frac{1}{f} = \frac{1}{50.0 \times 10^{3} \text{m}} = 20.00$$

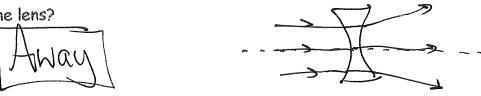
2. What is the focal length of 1.75 D reading glasses found on the rack in a pharmacy?



3. In what direction does a convex lens bend the light? Away or toward the principal axis of the lens?



4. In what direction does a concave lens bend the light? Away or toward the principal axis of the lens?



5. How far from a piece of paper must you hold your father's 2.25 D reading glasses to try to burn a hole in the paper with sunlight?

$$f = \frac{1}{p} = \frac{1}{2.250} = 0.444 \text{ m}$$