

### Item 4

A magnifying glass with a focal length of  $9.7 \text{ cm}$  is used to read print placed at a distance of  $8.2 \text{ cm}$ .

#### Part A

Calculate the position of the image. Follow the sign conventions.

Express your answer using two significant figures and include the appropriate units.

$$\frac{1}{d_o} + \frac{1}{d_i} = \frac{1}{f} \rightarrow d_i = \frac{f d_o}{d_o - f} = \frac{(9.7 \text{ cm})(8.2 \text{ cm})}{8.2 - 9.7}$$
$$d_i = \boxed{-53 \text{ cm}}$$

#### Part B

Calculate the angular magnification.

Express your answer using two significant figures.

$$M = \frac{N}{d_o} = \frac{25 \text{ cm}}{8.2 \text{ cm}} = \boxed{3.0 \times}$$

### Item 5

A magnifying glass is rated at  $3.5 \times$  for a normal eye that is relaxed.

#### Part A

What would be the magnification of this lens for a relaxed eye whose near point is  $65 \text{ cm}$ ?

Express your answer using two significant figures.

$$M = \frac{N}{f} \rightarrow f = \frac{N}{M} = \frac{25 \text{ cm}}{3.5} = 7.14 \text{ cm}$$

$$M_i = \frac{N_i}{f} = \frac{(65 \text{ cm})}{7.14 \text{ cm}} = \boxed{9.1 \times}$$

#### Part B

What would be the magnification of this lens for a relaxed eye whose near point is  $17 \text{ cm}$ ?

Express your answer using two significant figures.

# Mastering Physics Solutions Ch 8

**RD Boyd**



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