

Concave Mirrors Worksheet 1

Name _____ Per ____

- Ray 1 - Goes parallel to the Principal Axis, bounces off the mirror, and goes through the focus
 Ray 2 - Goes through the focus, bounces off the mirror, and comes out Parallel

1A. Draw the ray diagrams for the concave mirror below

1B. Draw the image of the arrow at the intersection

1C. Calculate the image distance using the "fido" equation

$$d_i = 15 \text{ cm}$$

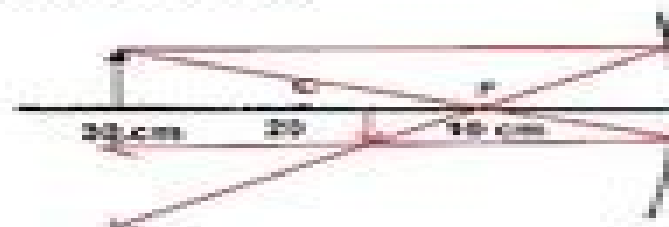
$$\frac{1}{f} = \frac{1}{d_i} + \frac{1}{d_o}$$

f is the focal length
 d_i is the image distance
 d_o is the object distance

1D. Calculate the magnification

$$m = \frac{-d_i}{d_o}$$

$$m = -1/2$$



2A. Draw the ray diagrams for the concave mirror below

2B. Draw the image of the arrow at the intersection

2C. Calculate the image distance using the "fido" equation

$$d_i = 20$$

$$\frac{1}{f} = \frac{1}{d_i} + \frac{1}{d_o}$$

2D. Calculate the magnification

$$m = \frac{-d_i}{d_o}$$

$$m = -1$$



3A. Draw the ray diagrams for the concave mirror below

3B. Draw the image of the arrow at the intersection

3C. Calculate the image distance using the "fido" equation

$$d_i = 30$$

$$\frac{1}{f} = \frac{1}{d_i} + \frac{1}{d_o}$$

3D. Calculate the magnification

$$m = \frac{-d_i}{d_o}$$

$$m = -2$$



Problem 14b Concave Mirrors Answers

Victor M. Corman



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