Solving Equations

A candle is placed 6 cm in front of a concave mirror with focal length f=2 cm. Determine the image location.

$$\frac{1}{6\,\text{cm}} + \frac{1}{d_i} = \frac{1}{2\,\text{cm}}$$

d_i = + 3 cm (in front of mirror)

Real Image!

Preflight 17.2

Compared to the candle, the image will be:

• Larger

• Smaller

• Same Size