Quiz 25.1A

Concave

An object is placed 23.5 cm in front of a comment mirror. The object forms a virtual image that is 1.50 times larger than the object.

- What is the focal length of this mirror?
- If the object is moved to a point that is twice as far away, 47.0 cm in front of the same mirror, what will be the magnification of the image?

$$\frac{1}{23.5} - \frac{1}{35.25} = \frac{1}{7}$$

$$= 70.5 \text{ cm}$$

$$M = -\frac{141}{47} = \left[\frac{1}{43.00} \right]$$