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**Physics**

**Mirror Equation Worksheet**

1. An object is placed 15 cm from a converging (concave) mirror that has a focal length of 10 cm.

a. Determine the image location.

b. If the object is 5 cm high, how high is the image?

c. Is the image real or virtual? inverted or upright? larger or smaller?

2. A converging (concave) mirror with a focal length of 7 cm is held 4 cm from your face.

a. Determine the image location.

b. What is the magnification of the image?

c. Is the image real or virtual? inverted or upright? larger or smaller?

3. A diverging mirror with a focal length of 90 cm is used as a side view mirror on a car. Another car is located 5 m in front of the mirror.

a. Determine the magnification of the image.

b. Is the image real or virtual? upright or inverted? larger or smaller?