Physics 2205 Quiz 11—Form A

A slide projector consists of a 35-mm slide and a converging double-convex lens of focal length 100 mm.

1. If the slide is 110 mm behind the lens, how far in front of the lens is the image focused?

- a) 0.9 m
- b) 1.1 m
- c) 19 m
- d) none of the above
- 2. How large is the image of the slide?
 - a) 0.35 mm
 - b) 35 mm
 - c) 350 mm
 - d) none of the above

Equations: $(1/f) = (1/d_i) + (1/d_o)$

 $m = (h_{f}/h_{o}) = -(d_{f}/d_{o})$

Physics 2205 Quiz 11—Form B

An object of height 3 cm stands 30 cm in front of a converging (concave) mirror of focal length 10 cm.

- 1. How far from the mirror is the image?
 - a) 7.5 cm
 - b) 15 cm
 - c) 30 cm
 - d) none of the above
- 2. What is the height of the image?

a) - 1.5 cm
b) - 3 cm
c) - 6 cm
d) none of the above

Equations: $(1/f) = (1/d_i) + (1/d_o)$

$$m = (h_{f}/h_{o}) = - (d_{f}/d_{o})$$