MIRROR QUIZ 1a

$$\frac{1}{s}+\frac{1}{s'}=\frac{1}{f} \qquad\qquad m=\frac{y'}{y}=\frac{-s'}{s}$$

For problems #1, 2, and 3:

(a) Draw the Principal Ray Diagram (to scale).
(b) Describe the image as usual.
(c) Find s' and y'.

1. CONCAVE MIRROR with radius of 7 cm, object distance (s) of 6 cm and object height (y) of 2 cm.

2. CONVEX MIRROR with R=6 cm, s=9 cm, and y=3 cm.

3. CONCAVE MIRROR with radius 8 cm, object distance 3 cm, and object height of 2 cm.

4. Find the four closest image distances of pt A with respect to (ie, to the right of) mirror #1.