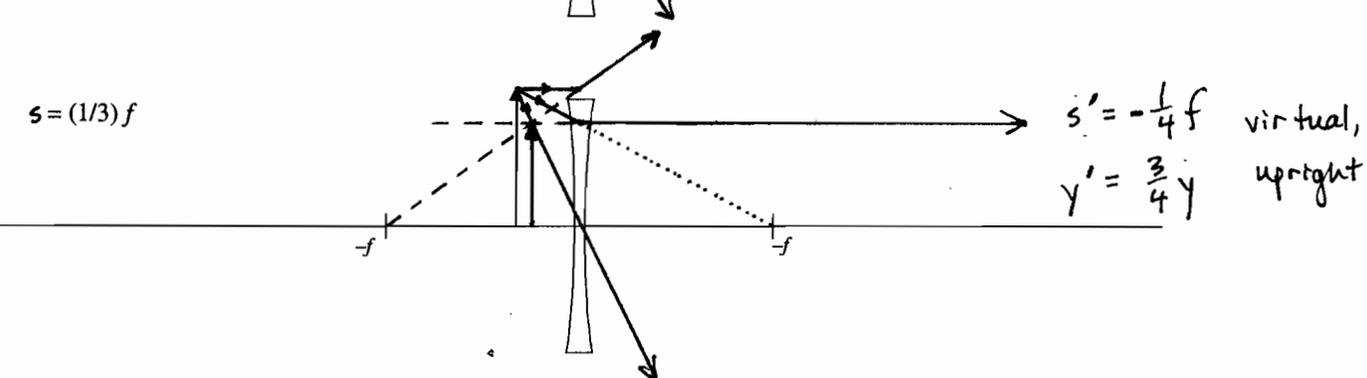
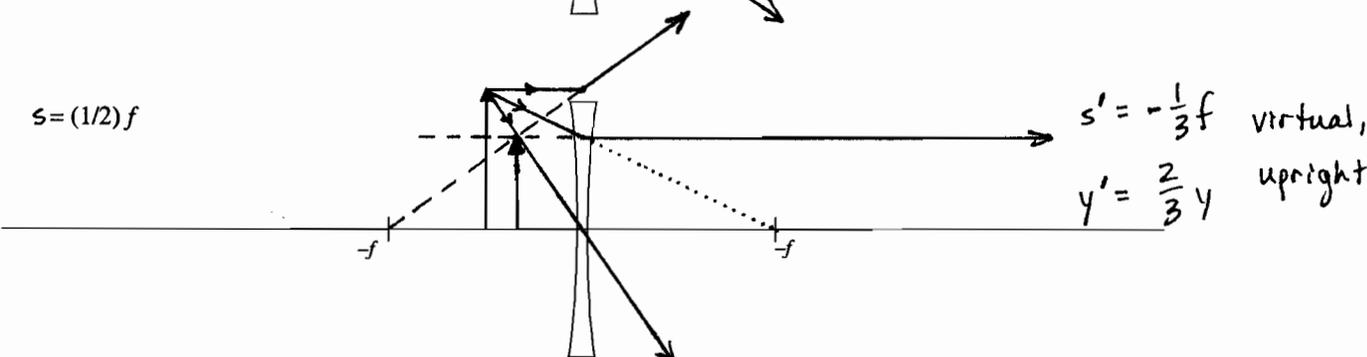
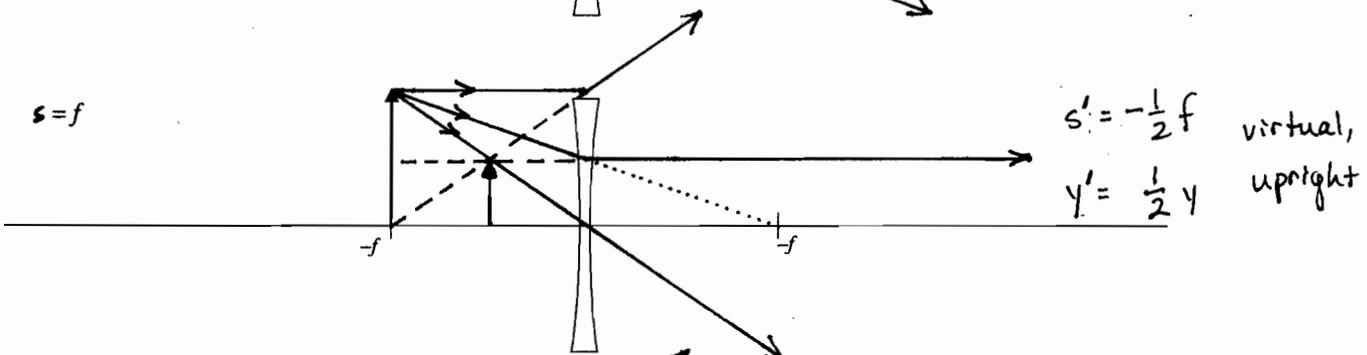
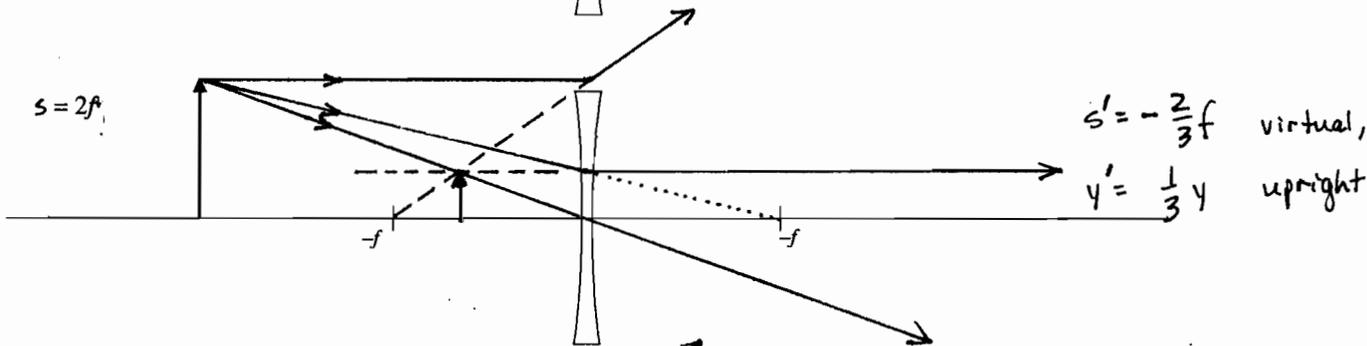
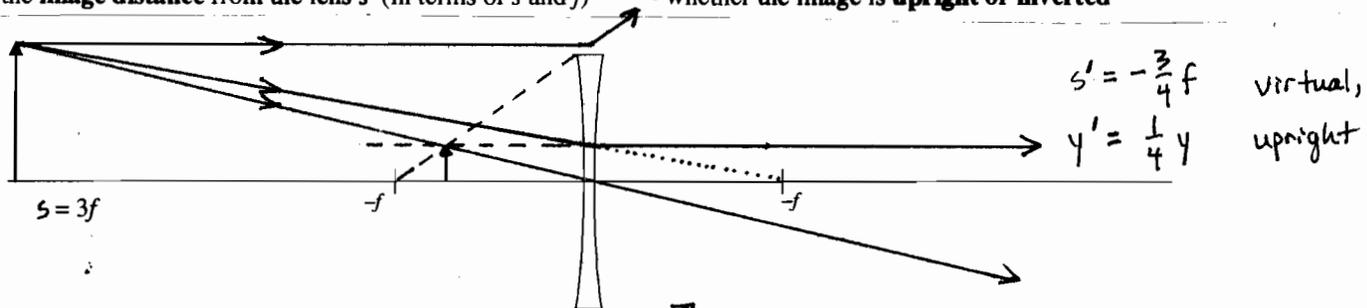
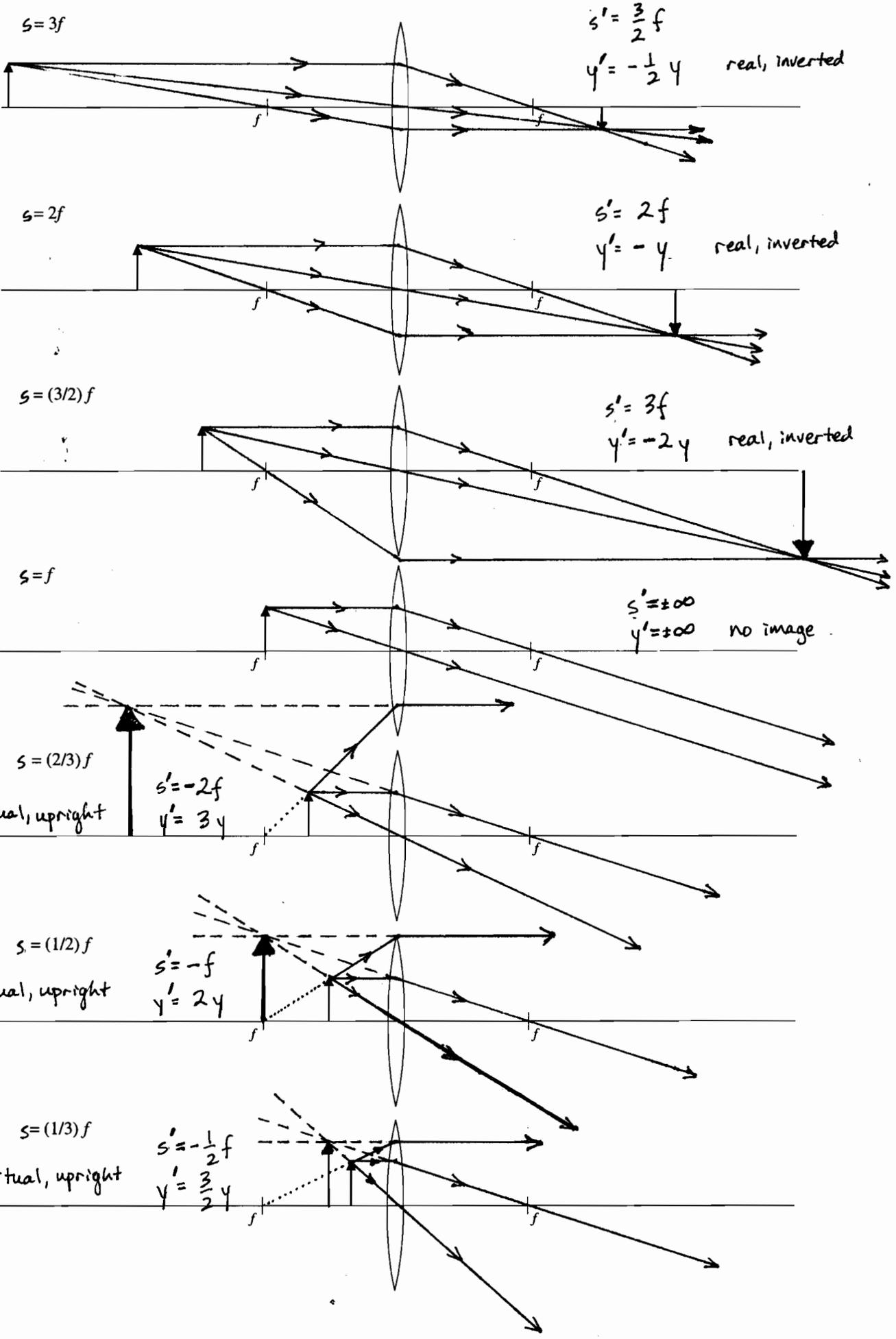


The same object (height = y) is placed at several different distances s to the left of the same lens (focal length = f). For each case, draw the **3 principal rays** to locate the image. Then use the "thin lens" equations to calculate:

- the **image height** y' (in terms of y)
- whether the **image is real or virtual**
- the **image distance** from the lens s' (in terms of s and f)
- whether the **image is upright or inverted**





The same object (height = y) is placed at several different distances s to the left of the same mirror (focal length = f). For each case, draw the 3 principal rays to locate the image. Then use the "thin lens" equations to calculate:

- the image height y' (in terms of y)
- whether the image is real or virtual
- the image distance from the lens s' (in terms of s and f)
- whether the image is upright or inverted

