NAME: _____   **DATE:**   _____

This time, in the interest of time, we will be using a small test image to learn how to do PSF photometry. Grab the compressed image from the course webpage and put it in a directory of choice.

1. When is PSF photometry a better choice to aperture photometry?

2. Outline the logical steps of PSF photometry. No IRAF details, only logic.

3. Inspect the test image and provide basic information on its contents – size, header information, image statistics, background, etc.

4. Check (and add if necessary) header keyword/value pairs for gain (1.0), readout noise (0.0), min and max good data value, exposure time (1.0), filter id ('V'), airmass (1.0), observation date (today). Recap here what keyword names you used.

5. Run daoedit and set up all important parameters in datapars, centerpars, fitskypars, photpars and daopars. Explain your choices and list the values you used. Save them to an external file.

6. Run daofind to create an initial target list. List and explain the parameters you used.

7. Run phot to get initial photometry results. List and explain the parameters you used.

8. Run pstselect to create a PSF target list. List and explain the parameters you used.

9. Run psf to compute a PSF model. List and explain the parameters you used.

10. Run allstar to do PSF photometry. List and explain the parameters you used.