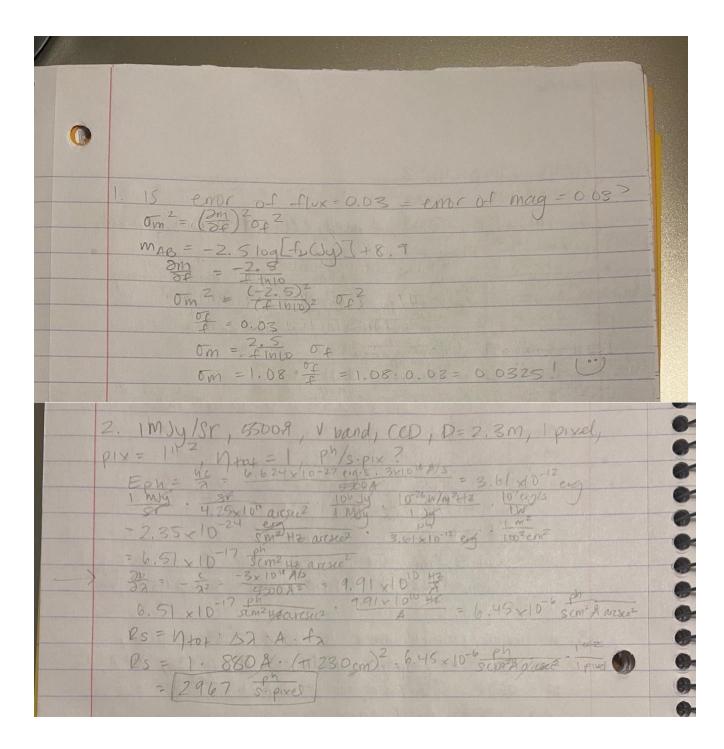
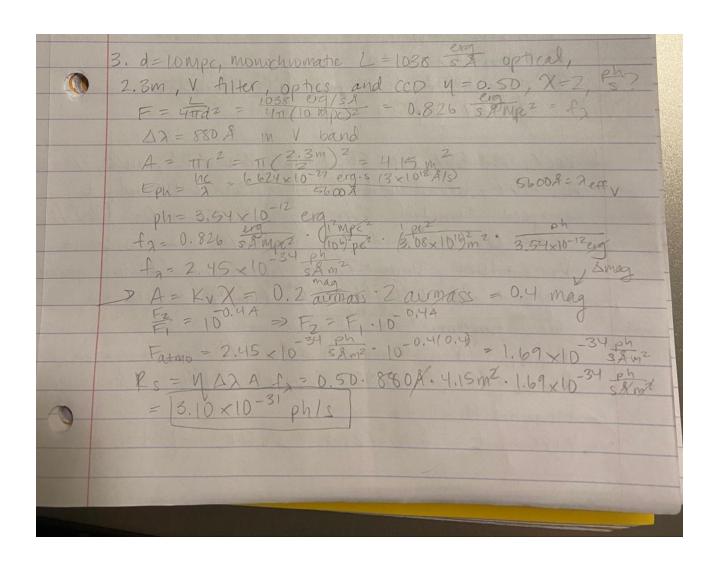
Mary Falder
ASTO 8060 HW 3





4 point source, Rs = 0.2 Ph, RB = 0.5 Phy, Rp = 10 Frenz, NR=5e-, A=100, PSF=4 PIX = npix, # 1 min expo Po = 10 e- 10 3 = 0.0027 Sp. t= {[5/N)2 (Ps + npix PB+ npix Pa)] + \((5/N)4 (Ps+ npix PB+ npix PB)2 4(5/N)2 Npix Nz2 ps27 y /2ps2 t= [(100)2(0.2 = +4pix 0.5 = pix + 4pix 0.0027 = pix)] = V(100)4(0.2 g + 4 plx 0.5 g plx + 4 plx 0.00 27 5 plx)2 4(100)24px 5e-)2(0.2 ph) } 1 / 2(0.2 ph)2 t=(22111.11=22107.49)/0.08 t = 46.22 s , 5527 32.54 s = 60 mind up > t=1- 1min exp., 9213 - 1min exp w/ a Ps this low I may be no don't use equation -> (9213 MIN exposites) 5. WIRO, 2.3m = D, f/2.1, 13.5 mm pix, X=1 armoss DE = 0.90, N = 0.70, N = 100, V = 22 mag,

MV = 20 orosec2, Scenner = 1.1", Ne = 4.5 px, Fo = 05. px

MV = 22 orosec2, detector, source, background united? 6? += 1[(5/N) CRS+np1x RB+np1x RB need Rs, NPIX, RB to plug in Ps= MAXA fx N = 0.9.0.7. Natro = 0.9.0.7. 2.5 = 0.9.0.7.2.5 = 0.520 $\Delta \lambda = 8808$ m V band $A = \pi r^2 = \pi (\frac{2.3m}{2})^2 = 4.15 m^2$

