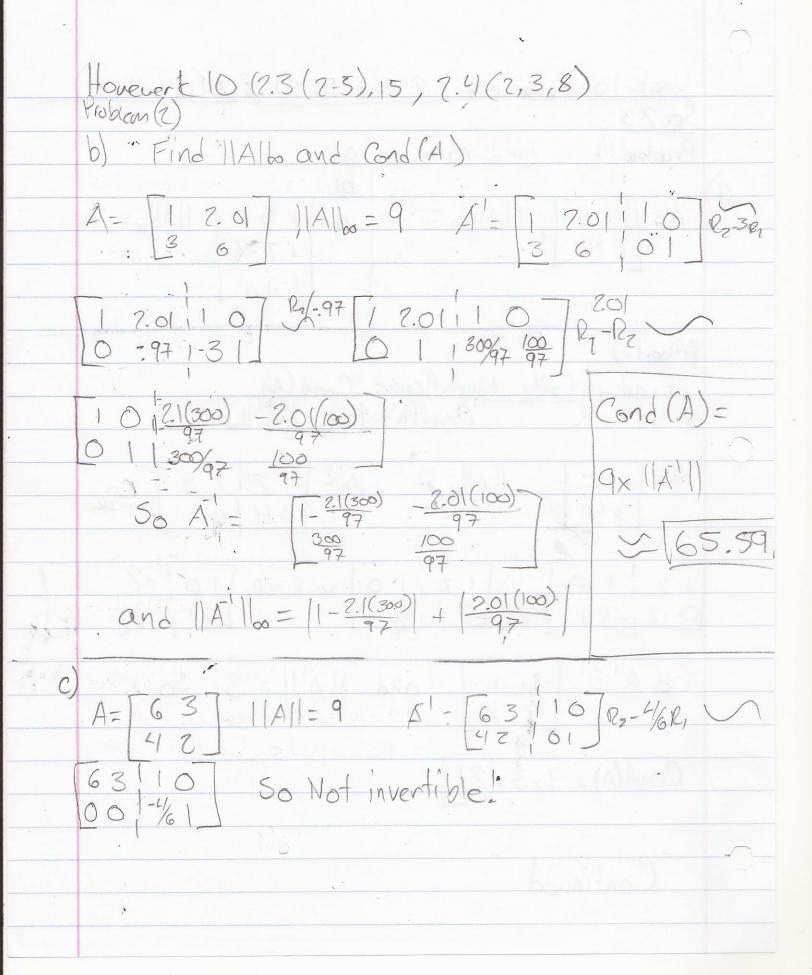
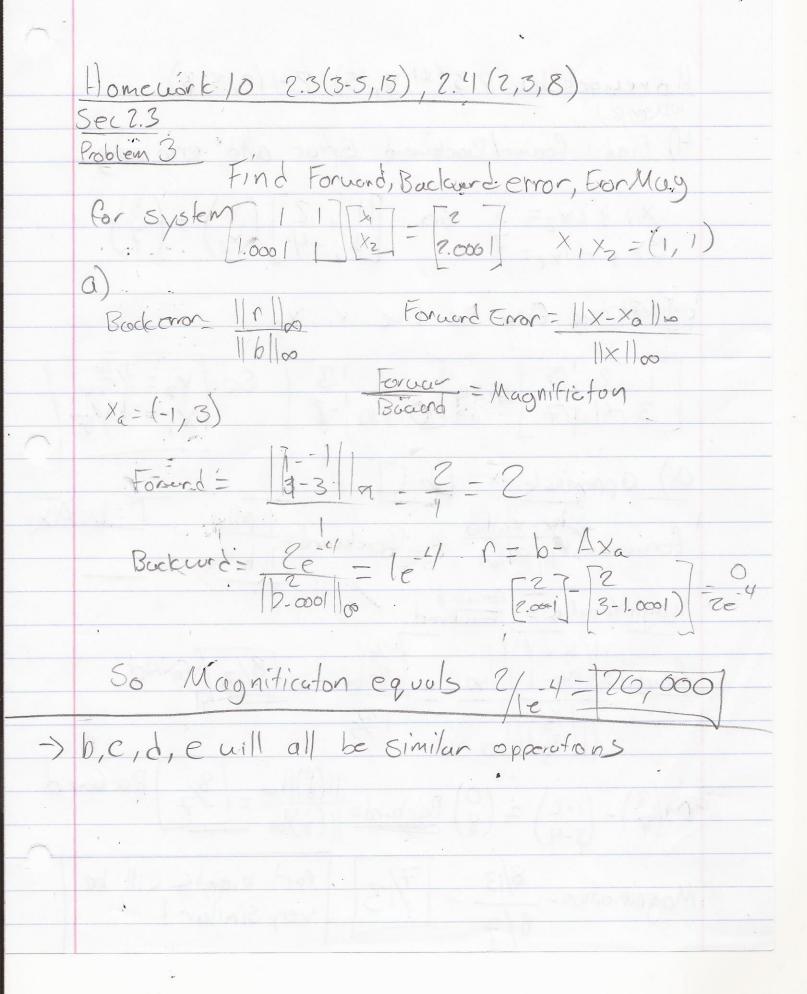
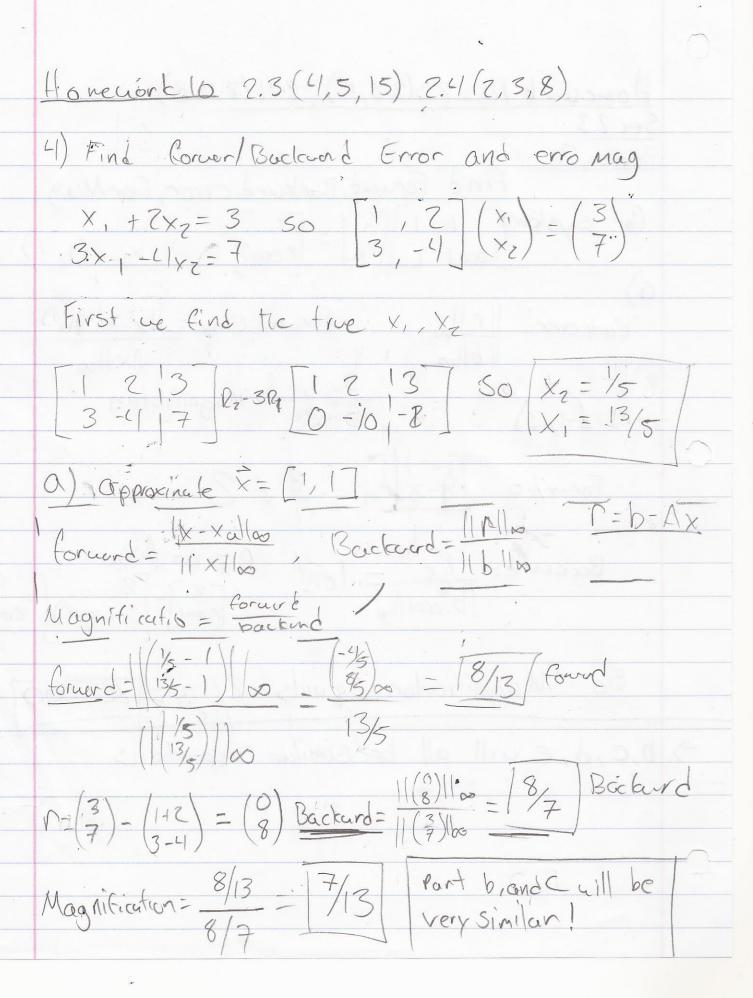
1	
	Week 16 Honework 2.3 (1-5,15), 2.4 (2,3,8)
	Sec 7.3 Problem(1) Find norm of A
a)	, b)
	$A = \begin{bmatrix} 1 & 3 \\ -1 & 2 \end{bmatrix}$ $A = \begin{bmatrix} 1 & 3 \\ -1 & 2 \end{bmatrix}$ $A = \begin{bmatrix} 1 & 3 \\ -1 & 2 \end{bmatrix}$ $A = \begin{bmatrix} 1 & 3 \\ -1 & 2 \end{bmatrix}$ $A = \begin{bmatrix} 1 & 3 \\ -1 & 2 \end{bmatrix}$
	Find infinity Nomfond Cond (A)
	a) Cord (A)= A A'
	A= 1-2 A = 7 A= 1.2110 \ 341 \ 341 \ 01 \ 22-321
V . C	[12 10] [12 10 ~ R, -7 Rz [10 1-2]] 0-2 1-3 1 [13/2 0 1 13/2 1/2] [01 1 3/2 -1/2]
	So A' = [-2 1] and A' = 3 So
	$Cond(A) = 7 \times 3 = 21$
	Continued







Homework 10 2.3(5,15), 2.4(2,3,8) Section 2.3 Problèm 5 Find Cornerd privar, backeverd error and error magnification for a given aproximate X of the System: 05 M+X = 3-417 $3x,-4x_2=7$ First ac find x true values. Eq's: Forward= 11x-xallos, Backerd= 111/100 ErrorMag. Forward
Backerd= 11bllos, ErrorMag. Backerd a) $\bar{x}_{\alpha} = [-7, -4]$ forward = $\left| \frac{1-2}{1-4} \right|_{\infty} = \frac{3}{1} = \left| \frac{3}{1} \right|_{\infty}$ So 1=(3)-(-2+8)-(-3) Backward 11-11/00 = [3] Error Magnification = 3/3/7 = 1.7 port b, C, d are the same part e on Next

Honework 10 2.3(5, 15), 24(2,3,8) Problem 5 Continued Find the cond (A) when A= [1-2] Coad (A)= 1/A1/00 × 1/A-1/100 7 × 1/4 /00 [1,-2,10 R2-3R 1-2,10 R2/2 1-2,10] N+2m 01, 3/2 /2 Then 7× 1/41/2 = 7×3=[2] = Cond(4) Satisfys I/Alla= I/X/100

