Math 22 Lin, Alg HW 1 tuswer ken ... 1.1 12 (3 points) Inconsistent 20 (2 points) [-2 4 6] = = = [-3] [-3] If h=-2, then x2 independent variable. The system is consistent. If $h \neq -2$, then $x_2 = 0$. The system is consistent. Thus the system is consistent for all h ER. 24 (3 points) a. True see p.8 b. False. C. Falge d. True see p. 3 1.2 2 (3 points) a. Reduced e chelon form. constent but not unique. b. Echelon. Consistent and unique. C. Not eduction and not consistent. d. Ethelon and not consistent. 4 (3 points) (3 points)

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(2 poi 9+4) Q [1357] 9x5 [0357] (0120) [0120] 0+(3)x(1+(7)x(3) -(0) 2 0] Pivot cols 1,2, and 4.

F note you can row reduce the last column too!

1.3 8 (> points)

W = 2V - u, X = -2u + 2V, Y = -2u + 3.5V, Z = -3u + 4V

I Every vector in 12 is a linear combination of u and V.

Court forget to conswer!

12 (2 points)

[-2 5 0 11] is inamaistant, thus bis not a linear ambination of an analy.
2 5 8 -7

24 (3 points)

a. True. see p. 31

b. True see p.32

C. False see p.32

d. True see p. 35

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32 (2 points)

The solution is not unique. The solutions that anse from letting $X_1=0$ and $X_2=0$ respectively are different.

1.2 33 (2 points +1 homes point) p(t)=7+6t-62

generalization: you need not values of t to deformine a not water polynomial.