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Right hand sible b. a linear combination of the basic columns

For this example, we find a particular solution. Set $x_3 = x_y = x_y = 0$

solve for XX, X2

In second equation X2=-1

First equation $X_1 = (3-1X_2)/1$ = (3+1)/1 = 4

In essence, now 3 here has not additional importation.

Pour 3 is a linear combination of four 2 and now 1

Row3 = 2 Now 2 +0. Now 1 (have just a multiple of another low). Hwe for back to example on p. 23.
Pow 3 = 1. Row 2 + 1. Row 1

This is the general case.

of an augmented system indicates that

on now is a linear combination of the other

Say. $E_3'' = E_3 - 2 E_2'$ = $(E_3 - 4E_1) - 2 (E_2 + 2E_1)$

0 = F3 - 4F, -2 F2 - 4 F,

E3 = 8 E, +2 fz

This is exercise 2.1.3. (d)