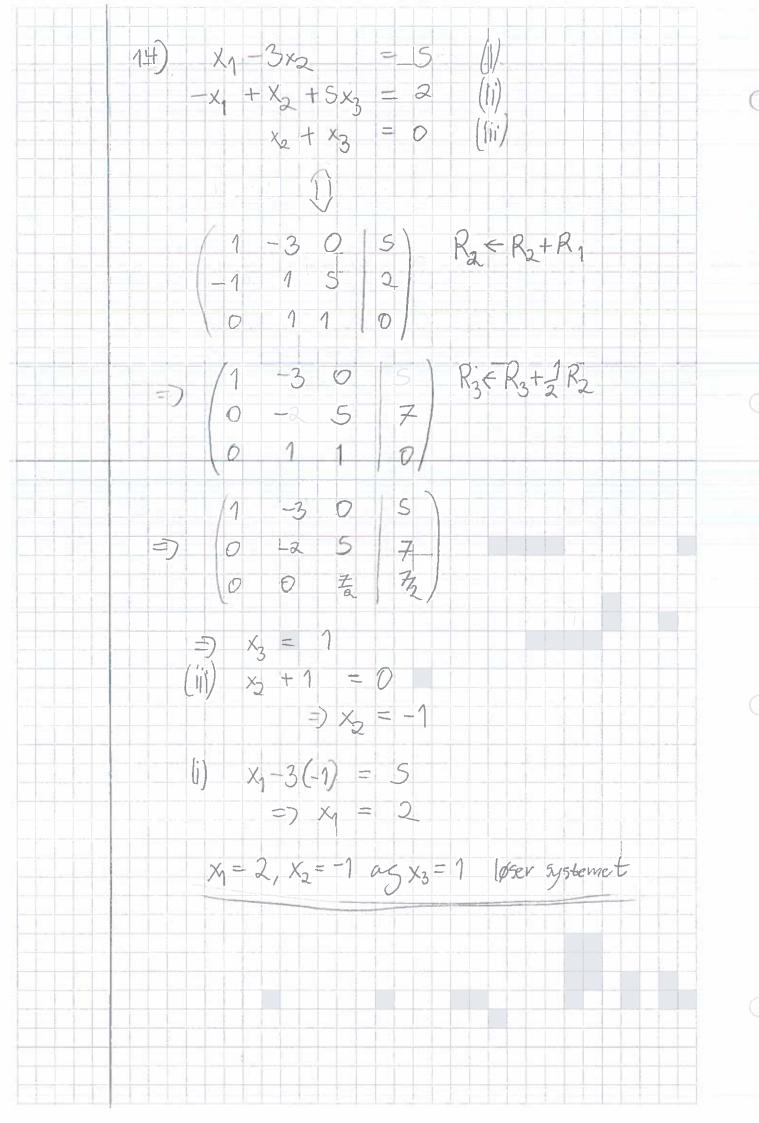
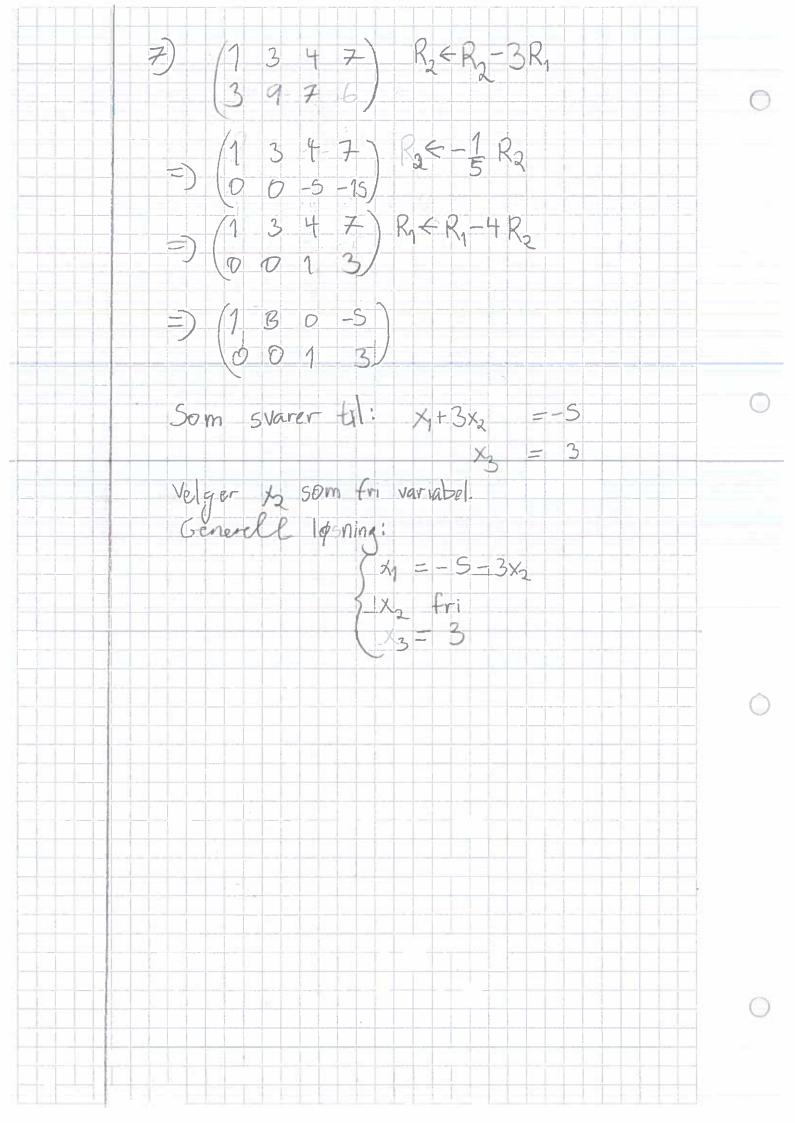
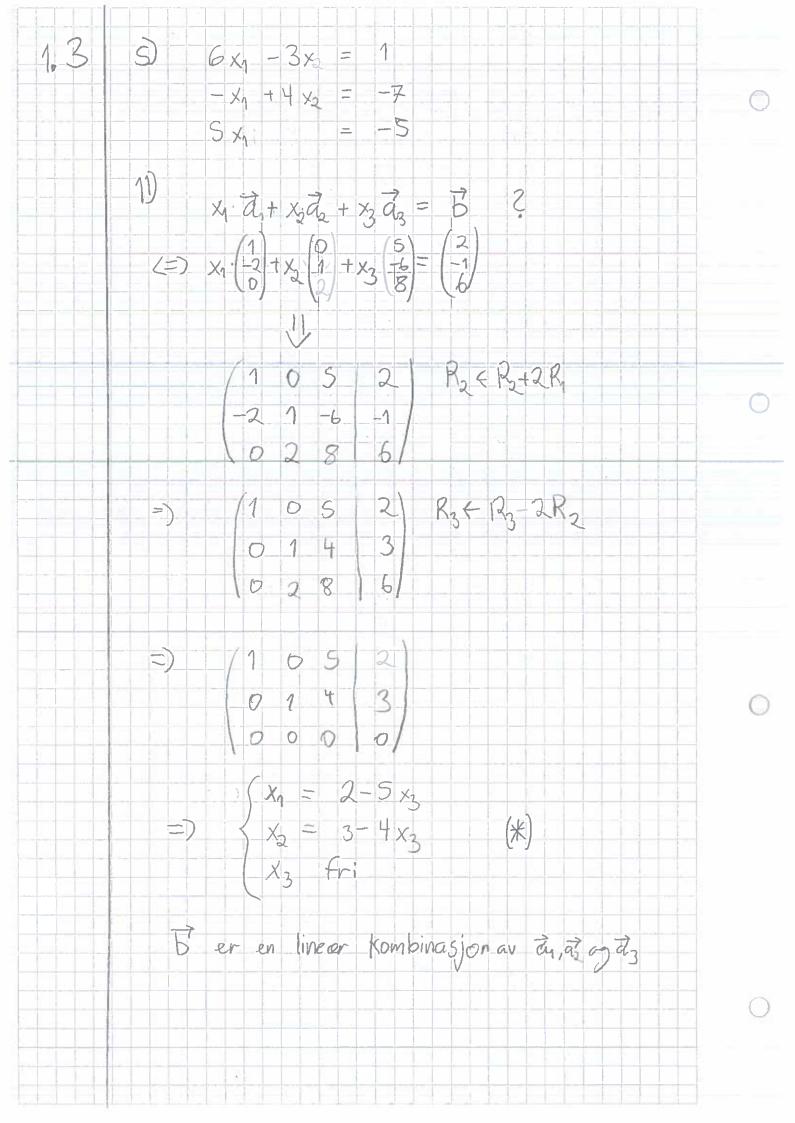
Oving 5 13 1.1. $x_1 - 3x_3 =$ 8 (i) (ii) $2x_1 + 2x_2 + 9x_3 = 7$ X2+5X3 = -2 0 -3 $R_2 \leq R_2 - 2R$ 8 S 0 -3 8 R3 < R3 - 1 R2 1 5 1-2 \equiv 0 -3 8 (i) => x₁ =3(-1) Xy=5, x2=3, x3=-1 | pser systemet

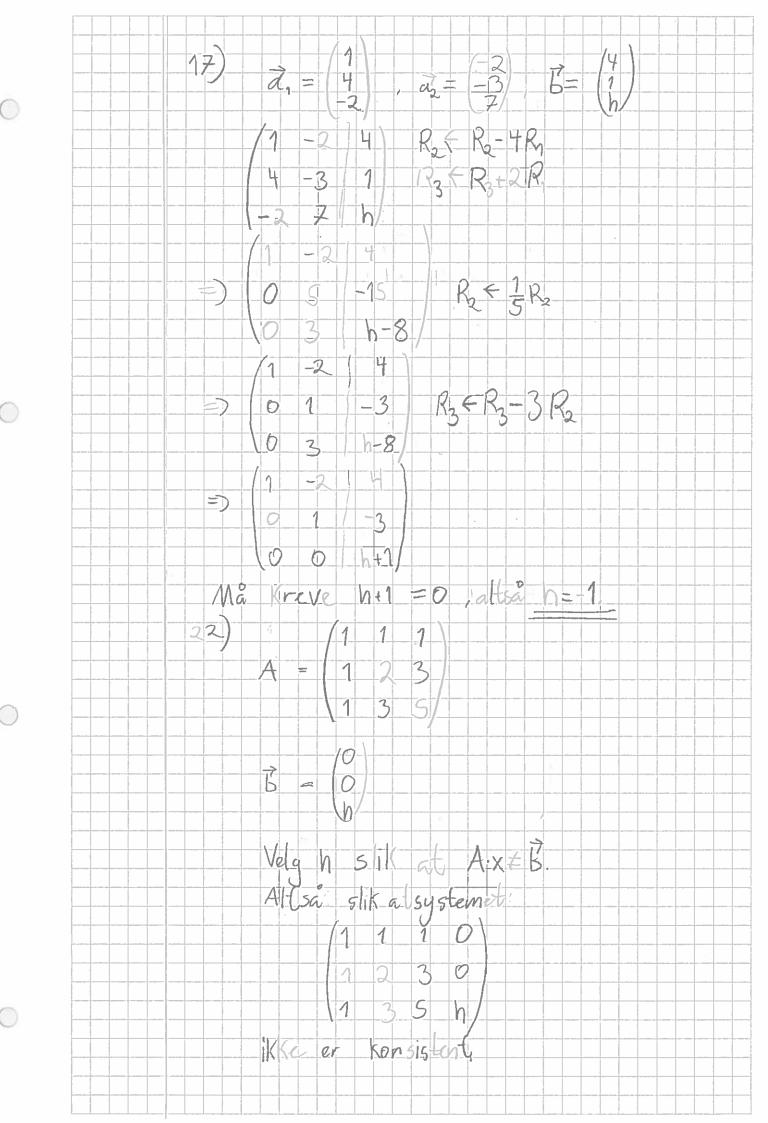


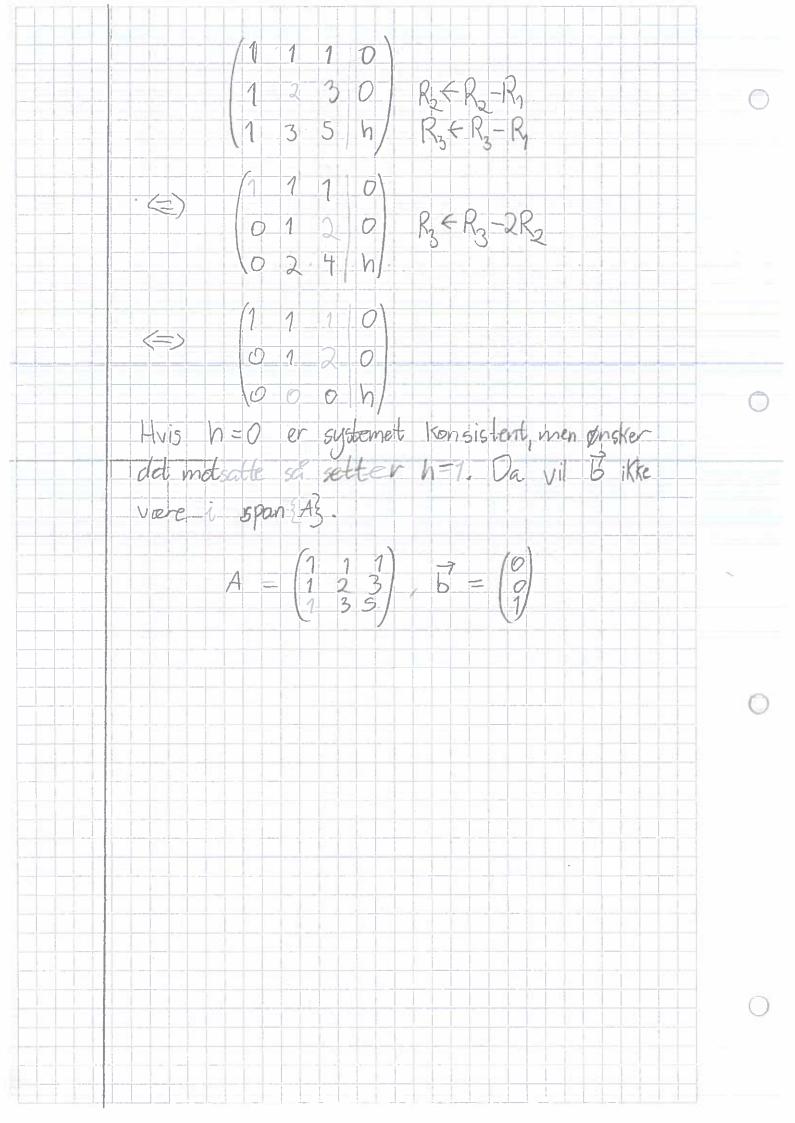
R3 K-R3+2R1 9 R3 ← R3+R2 K+29 7 0 Kt 2g+h Hvis K+2q+h=0 Kansystemet løses -pivot R2 < R-4 R1 R3 < R3 + 6 R1 3) R2 € - 1 R2 R3 € - 1 B3 -9 0 -10 $R_3 \leftarrow R_3 - R_2$ $R_1 \leftarrow R_1 - 2R_2$ 2 3 9 2 3 4 5 6 6 7 8 10 Pivots 2 0 0 0 -avot-ORIGINAL FINAL



 $O R_2 \leftarrow R_2 + 3R_3$ $12 - 6 | 0 | R_3 \in R_3 + 2R_1$ 0 000 0 $3x_1 - 4x_2 + 2x_3 = 0$ X2 og X3 er frie variabler. General losing blir: $x_1 = \frac{1}{3}(4x_2 - 2x_3)$ $x_3 = \frac{1}{3}(4x_2 - 2x_3)$ $\begin{pmatrix} 2 & 3 & h \\ 4 & 6 & 7 \end{pmatrix}$ $R_2 \in R_2 - 2R_1$ 23 h 0 0 7-2h For 7-2h = 0 VI systemet vore Konsistent 29) Et slikt underbestemt system vil ha en (eller flere) frie variabler. Frie variabler Kan ha wendeligmange forskjelige verdier og hver verdi (verdi-kombinasjon) vil svare El én bestemt løsning. Så derfor er det vendelig mange løsninger.







Produktet er udetinert fordi Z= ma ha like mangerader som A=(1 2) Kollonner. $A\vec{x} = \vec{b}$ (Z_1) (Z_1) (Z_2) (Z_3) (Z_4) (Z_1) (Z_1) (Z_2) (Z_3) (Z_4) (Z_4) (Z_1) (Z_2) (Z_3) (Z_4) -5 4 Vektor: $x_1 \cdot {\binom{9}{5}} + x_2 {\binom{-1}{4}} = {\binom{4}{1}}$ 10) Matrise: $\begin{pmatrix} 8 & -1 \\ 5 & 4 \\ 1 & -3 \end{pmatrix}$. $\begin{pmatrix} x_1 \\ x_2 \\ 2 \end{pmatrix}$ 17) Hvis A har en pivot i hver rad han AZ=5 en løsning for alle BERT. -1 -1 1 R2 = R2 + R1 -4 2 -8 R3 = 1 R3 0 3 -1 R4 = R4 - 2R1 3 0 3 (=) 0-21-4 R3-R3+R2 -63-7

