To
$$\mathbb{R}^{m} \to \mathbb{R}^{m}$$
 linear an allful gett wed matrice $(m \times m + m)$ $A = \{ x \}$

A m gett wed $(x, y, z) = (x - y + 1z)$
 $A = (x, y, z) = (x - y + 1z)$
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January 30, 2018

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4.
$$T: \mathbb{R}^2 \to \mathbb{R}^2$$
 $\overline{T}(\overline{a}) = \text{apsilbilded on}$
 $y - \text{akenn}$

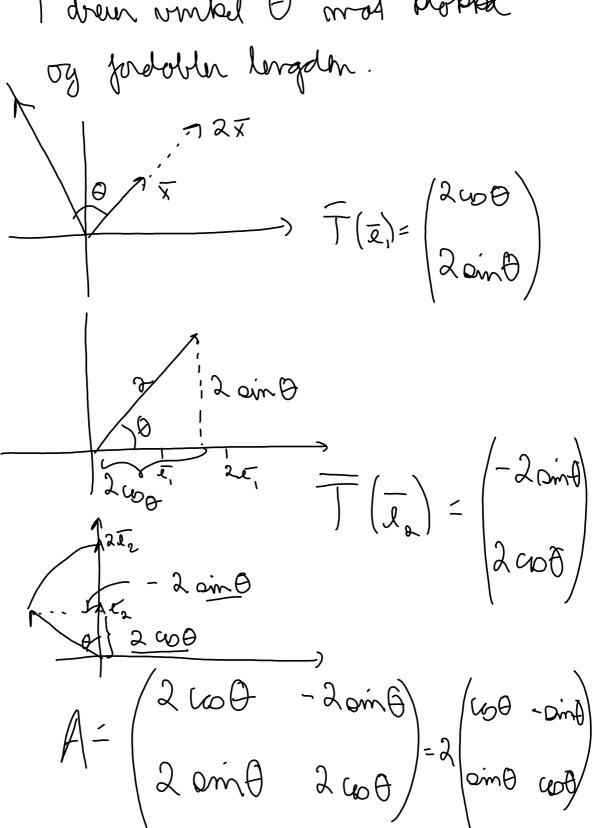
$$A = (-1 \text{ O}) = (\overline{T}(\overline{x}) + \overline{T}(\overline{x}))$$

5) $\overline{T}: \mathbb{R}^2 \to \mathbb{R}^2$ for dollar amon being lower finch being lower finch being $\overline{T}(x,y) = \begin{pmatrix} x \\ 2y \end{pmatrix}$
 $A = \begin{pmatrix} 1 & 0 \\ 0 & 2 \end{pmatrix}$

January 30, 2018

$$b) \quad T: \mathbb{R}^2 \longrightarrow \mathbb{R}^2$$

T drein winkel & mod blokka



January 30, 2018

First planed arithm relation pri projektions

$$T(X_1Y_1, Z) = \begin{pmatrix} X \\ Y \\ 0 \end{pmatrix}$$

$$A = \begin{pmatrix} 1 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & 0 \end{pmatrix} = \begin{pmatrix} T(T_1) & T(T_2) & T(T_3) \\ T(T_1) & T(T_2) & T(T_3) \end{pmatrix}$$

Affin arbitrary
$$\overline{F}: |R^{m} \rightarrow |R^{m}|, \quad A \text{ my on multiple}$$

$$\overline{F}(\overline{x}) = A \overline{x} + \overline{c} \quad \overline{c} \in \mathbb{R}^{m}$$

$$\overline{F}(\overline{o}) = \overline{c}$$
1)
$$\overline{F}(x, y, z) = \begin{pmatrix} 2x - 3y + z - 7 \\ -x + z - 2 \end{pmatrix}$$

$$= \begin{pmatrix} 2x - 3y + 2 \\ -x + z \end{pmatrix} + \begin{pmatrix} -7 \\ -2 \end{pmatrix}$$

$$= \begin{pmatrix} 2 - 3 & 1 \\ -1 & 0 & 1 \end{pmatrix} \begin{pmatrix} x \\ y \\ z \end{pmatrix} + \begin{pmatrix} -7 \\ -2 \\ -2 \end{pmatrix}$$

$$\overline{C}$$

3
$$\vec{F}: \vec{R}^2 \to \vec{R}^2$$
 offin \vec{x}_1
 $\vec{F}(0,0) = \begin{pmatrix} 1 \\ -1 \end{pmatrix} = \vec{c}$ $\vec{F}(1,0) = \begin{pmatrix} 2 \\ 3 \end{pmatrix}$
 $\vec{F}(0,1) = \begin{pmatrix} -1 \\ 0 \end{pmatrix}$
 \vec{x}_2
 $\vec{F}(\vec{x}) = \vec{A}\vec{x} + \vec{c}$ $\vec{A}\vec{x} = \vec{F}(\vec{y}) - \vec{c}$
 $\vec{A}\vec{x}_1 = \vec{F}(\vec{x}_1) - \vec{c} = \begin{pmatrix} 2 \\ 3 \end{pmatrix} - \begin{pmatrix} 1 \\ -1 \end{pmatrix} = \begin{pmatrix} 1 \\ 4 \end{pmatrix}$
 $\vec{A}\vec{x}_1 = \vec{F}(\vec{x}_2) - \vec{c} = \begin{pmatrix} -1 \\ 0 \end{pmatrix} - \begin{pmatrix} 1 \\ -1 \end{pmatrix} = \begin{pmatrix} -2 \\ 1 \end{pmatrix}$
 $\vec{A} = \begin{pmatrix} 1 \\ 4 \\ 1 \end{pmatrix}$

$$F(x,y) = \begin{cases} (x,y) & \overline{F}(0,0) = (b) = \overline{c} \\ 0 & \overline{c} \end{cases}$$

$$F(\overline{c},) = \begin{cases} 5 \\ 0 \end{cases}$$

$$F(\overline{c},)$$

41.1.

1.
$$X - 2y + 3z = 1$$
 $-X + y - 2z = 0$
 $-3x + 5y - 8z = 2$

$$\begin{pmatrix}
1 - 2 & 3 & 1 \\
-1 & 1 - 2 & 0
\end{pmatrix}$$
 $= 1 + 1 = 1 = 0$

$$\begin{pmatrix}
1 - 2 & 3 & 1 \\
0 & -1 & 1 & 1
\end{pmatrix}$$

$$\begin{pmatrix}
1 - 2 & 3 & 1 \\
0 & -1 & 1 & 5
\end{pmatrix}$$

$$\begin{pmatrix}
1 - 2 & 3 & 1 \\
0 & -1 & 1 & 5
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0 & -1 & 1 & 1
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0 & 0 & 0 & 4
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$$\begin{pmatrix}
0 & 0 & 1 & 1 \\
0 & 0 & 0 & 4
\end{pmatrix}$$

$$\frac{413.}{-3} \begin{pmatrix} 2 & -4 & 6 & -2 \\ -3 & 2 & -1 & 8 \\ 1 & -6 & 11 & 4 \end{pmatrix} \stackrel{\text{II-II}}{\sim} \begin{pmatrix} 1 & -2 & 3 & -2 \\ 1 & -6 & 11 & 4 \end{pmatrix} \stackrel{\text{II-II}}{\sim} \begin{pmatrix} 1 & -2 & 3 & -1 \\ 0 & -4 & 8 & 5 \\ 0 & -4 & 8 & 5 \end{pmatrix} \stackrel{\text{II-II}}{\sim} \begin{pmatrix} 1 & -2 & 3 & -1 \\ 0 & -4 & 8 & 5 \\ 0 & 0 & 0 \end{pmatrix} \stackrel{\text{II-II}}{\sim} \begin{pmatrix} 1 & -2 & 3 & -1 \\ 0 & -4 & 8 & 5 \\ 0 & 0 & 0 \end{pmatrix} \stackrel{\text{II-II}}{\sim} \begin{pmatrix} 1 & -2 & 3 & -1 \\ 0 & -4 & 8 & 5 \\ 0 & 0 & 0 \end{pmatrix} \stackrel{\text{II-II}}{\sim} \begin{pmatrix} 1 & -2 & 3 & -1 \\ 0 & -4 & 8 & 5 \\ 0 & 0 & 0 \end{pmatrix} \stackrel{\text{II-II}}{\sim} \begin{pmatrix} 1 & -2 & 3 & -1 \\ 0 & -4 & 8 & 5 \\ 0 & 0 & 0 \end{pmatrix} \stackrel{\text{II-II}}{\sim} \begin{pmatrix} 1 & -2 & 3 & -1 \\ 0 & -4 & 8 & 5 \\ 0 & 0 & 0 \end{pmatrix} \stackrel{\text{II-II}}{\sim} \begin{pmatrix} 1 & -2 & 3 & -1 \\ 0 & -4 & 8 & 5 \\ 0 & 0 & 0 \end{pmatrix} \stackrel{\text{II-II}}{\sim} \begin{pmatrix} 1 & -2 & 3 & -1 \\ 0 & -4 & 8 & 5 \\ 0 & 0 & 0 \end{pmatrix} \stackrel{\text{II-II}}{\sim} \begin{pmatrix} 1 & -2 & 3 & -1 \\ 0 & -4 & 8 & 5 \\ 0 & 0 & 0 \end{pmatrix} \stackrel{\text{II-II}}{\sim} \begin{pmatrix} 1 & -2 & 3 & -1 \\ 0 & -4 & 8 & 5 \\ 0 & 0 & 0 \end{pmatrix} \stackrel{\text{II-II}}{\sim} \begin{pmatrix} 1 & -2 & 3 & -1 \\ 0 & -4 & 8 & 5 \\ 0 & 0 & 0 \end{pmatrix} \stackrel{\text{II-II}}{\sim} \begin{pmatrix} 1 & -2 & 3 & -1 \\ 0 & -4 & 8 & 5 \\ 0 & 0 & 0 \end{pmatrix} \stackrel{\text{II-II}}{\sim} \begin{pmatrix} 1 & -2 & 3 & -1 \\ 0 & -4 & 8 & 5 \\ 0 & 0 & 0 \end{pmatrix} \stackrel{\text{II-II}}{\sim} \begin{pmatrix} 1 & -2 & 3 & -1 \\ 0 & -4 & 8 & 5 \\ 0 & 0 & 0 \end{pmatrix} \stackrel{\text{II-II}}{\sim} \begin{pmatrix} 1 & -2 & 3 & -1 \\ 0 & -4 & 8 & 5 \\ 0 & 0 & 0 \end{pmatrix} \stackrel{\text{II-II}}{\sim} \begin{pmatrix} 1 & -2 & 3 & -1 \\ 0 & -4 & 8 & 5 \\ 0 & 0 & 0 \end{pmatrix} \stackrel{\text{II-II}}{\sim} \begin{pmatrix} 1 & -2 & 3 & -1 \\ 0 & -4 & 8 & 5 \\ 0 & 0 & 0 \end{pmatrix} \stackrel{\text{II-II}}{\sim} \begin{pmatrix} 1 & -2 & 3 & -1 \\ 0 & -4 & 8 & 5 \\ 0 & 0 & 0 \end{pmatrix} \stackrel{\text{II-II}}{\sim} \begin{pmatrix} 1 & -2 & 3 & -1 \\ 0 & 1 & -2 & 74 \\ 0 & 0 & 0 & 0 \end{pmatrix} \stackrel{\text{II-II}}{\sim} \begin{pmatrix} 1 & -2 & 3 & -1 \\ 0 & 1 & -2 & 74 \\ 0 & 0 & 0 & 0 \end{pmatrix} \stackrel{\text{II-II}}{\sim} \begin{pmatrix} 1 & -2 & 3 & -1 \\ 0 & 1 & -2 & 74 \\ 0 & 0 & 0 & 0 \end{pmatrix} \stackrel{\text{II-II}}{\sim} \begin{pmatrix} 1 & -2 & 3 & -1 \\ 0 & 1 & -2 & 74 \\ 0 & 0 & 0 & 0 \end{pmatrix} \stackrel{\text{II-II}}{\sim} \begin{pmatrix} 1 & -2 & 3 & -1 \\ 0 & 1 & -2 & 74 \\ 0 & 0 & 0 & 0 \end{pmatrix} \stackrel{\text{II-II}}{\sim} \begin{pmatrix} 1 & -2 & 3 & -1 \\ 0 & 1 & -2 & 74 \\ 0 & 0 & 0 & 0 \end{pmatrix} \stackrel{\text{II-II}}{\sim} \begin{pmatrix} 1 & -2 & 3 & -1 \\ 0 & 1 & -2 & 74 \\ 0 & 0 & 0 & 0 \end{pmatrix} \stackrel{\text{II-II}}{\sim} \begin{pmatrix} 1 & -2 & 3 & -1 \\ 0 & 1 & -2 & 74 \\ 0 & 0 & 0 & 0 \end{pmatrix} \stackrel{\text{II-II}}{\sim} \begin{pmatrix} 1 & -2 & 3 & -1 \\ 0 & 1 & -2 & 74 \\ 0 & 0 & 0 & 0 \end{pmatrix} \stackrel{\text{II-II}}{\sim} \begin{pmatrix} 1 & -2 & 3 & -1 \\ 0 & 1 & -2 & 74 \\ 0 & 0 & 0 & 0 \end{pmatrix} \stackrel{\text{II-II}}{$$

$$X = 0.6 \text{ y} + 0.4 \text{ z}$$

 $Y = 6.6 + 0.4 \times$
 $Z = 0.6 \times$

$$\begin{pmatrix} x \\ y \\ 2 \end{pmatrix} = \begin{pmatrix} 0.6923 \\ 0.8769 \\ 6.4154 \end{pmatrix}$$

$$X = 0.6 \text{ y} + 0.42$$
 $Y = (6.6) + 0.4 \times$
 $1 - 0.6 - 0.4 \text{ 0}$
 $-0.4 \text{ 0} \cdot 0.6$
 $-0.6 \text{ 0} \cdot 1 \cdot 0$

	L www.			
	Leur	A	B	C
A	X	0.6X	6.3×	O JX
B	y	6,3 y	0.5y	0.29
C	2,	0.62	0.12	0.32
X+y+2=120				
$X = 0.6 \times + 0.3 y + 0.62$				
$y = 6.3 \times + 6.5 y + 0.12$				
2 - 6.1 x + 0,2 y + 0,32				
			X =	60
	y= 40			
			Ž.=	20.