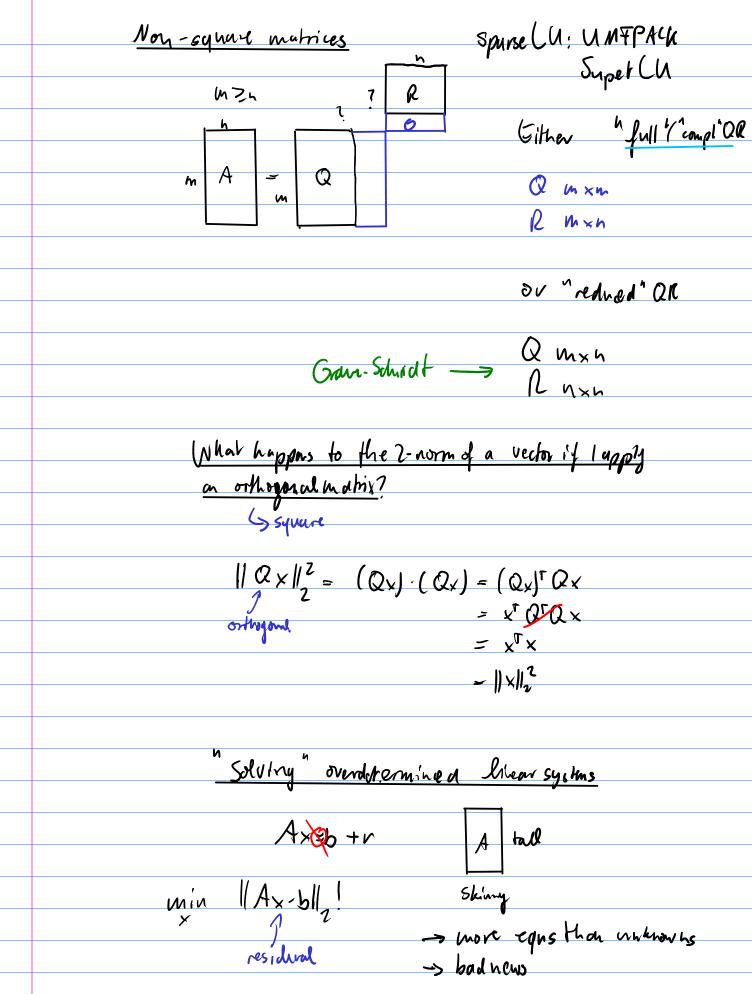
$$A = 30.1d$$
 $||A|| = ||30|| ||1d||$
 $A^{-1} = \frac{1}{30}.1d$ $||A^{-1}|| = ||\frac{1}{30}||.||1d||$

Qr A = R

Carresolve Ax- 6 using QR?

Ax=6
$$\sim$$
 QRx=6 \sim Qy=b
y=QT6 \sim L2

Rx=y \sim Lachsubst n^2



$$\lim_{x \to 0} \|A_{x} - b\|_{2}^{2} = (A_{x} - b)_{1}^{2} + (A_{x} - b)_{2}^{2} + \cdots + (A_{x} - b)_{x}^{2}$$

$$\lim_{x \to 0} \|A_{x} - b\|_{2}^{2} = (A_{x} - b)_{1}^{2} + \cdots + (A_{x} - b)_{x}^{2}$$

$$\lim_{x \to 0} \|A_{x} - b\|_{2}^{2} = (A_{x} - b)_{1}^{2} + \cdots + (A_{x} - b)_{x}^{2}$$

$$||Ax \sim 6||_2^2 = ||QR \times -6||_1^2$$

$$= \| QQ Q_{x} - Q^{r} b \|_{2}^{q}$$

$$= \| Q_{x} - Q^{r} b \|_{2}^{q}$$

