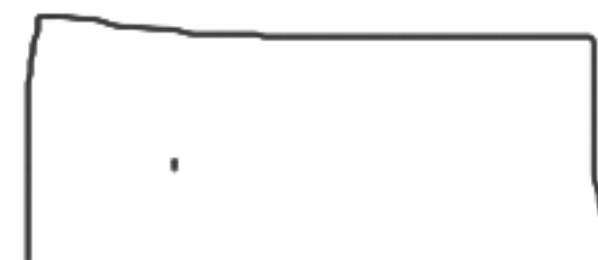
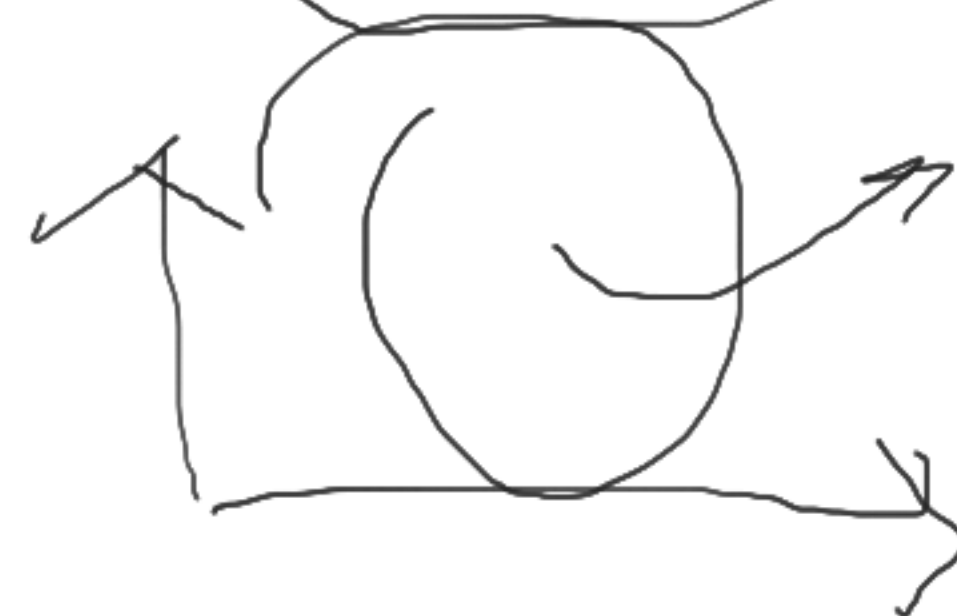
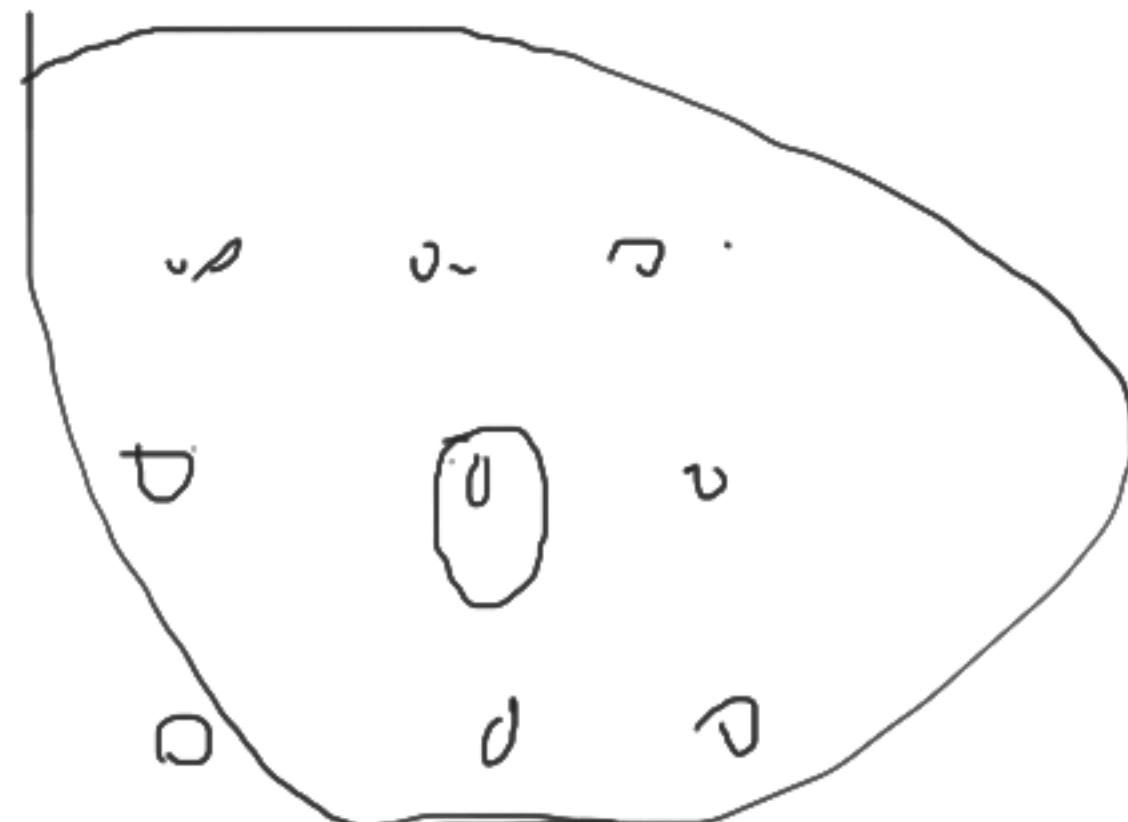




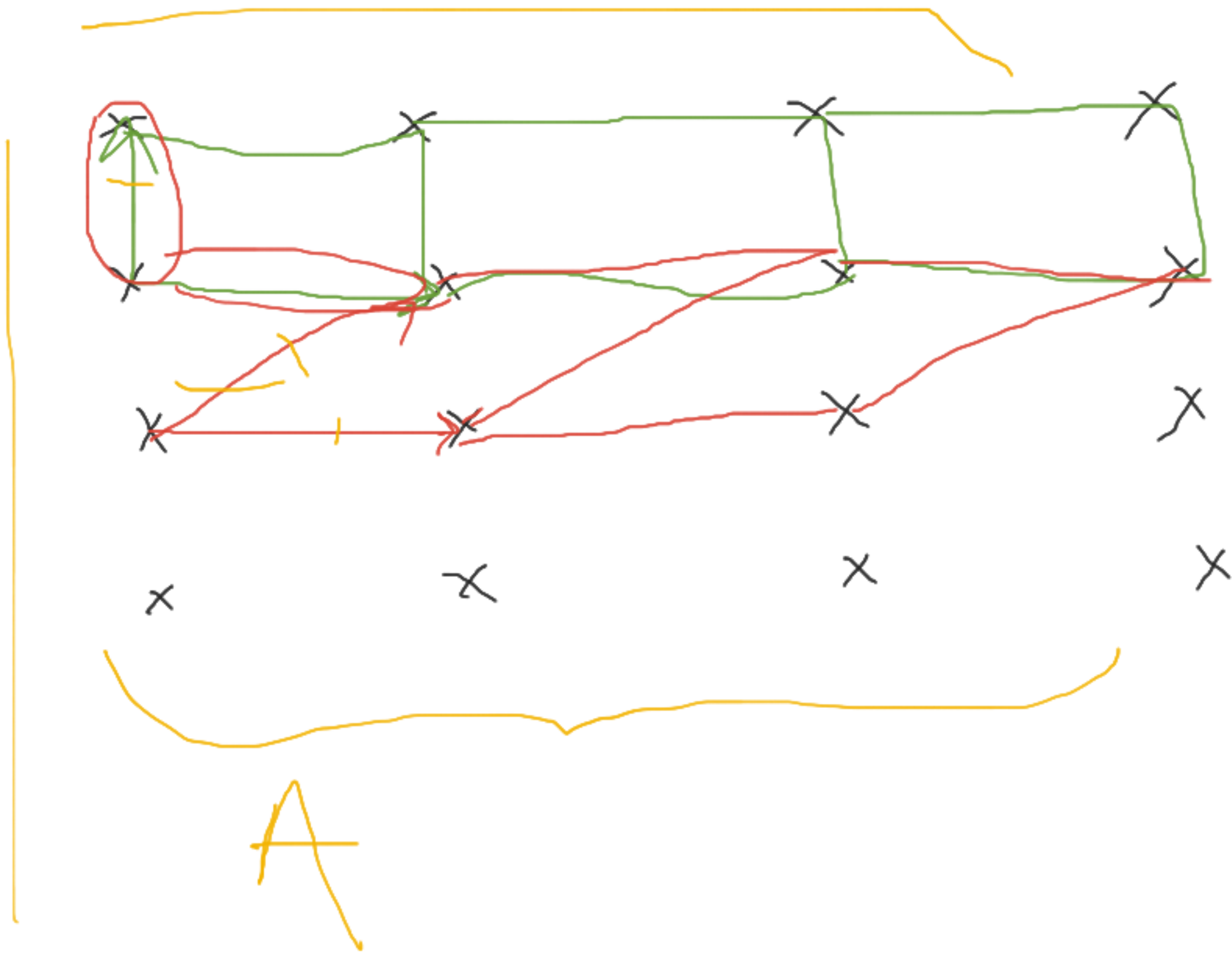
$n$



$x$

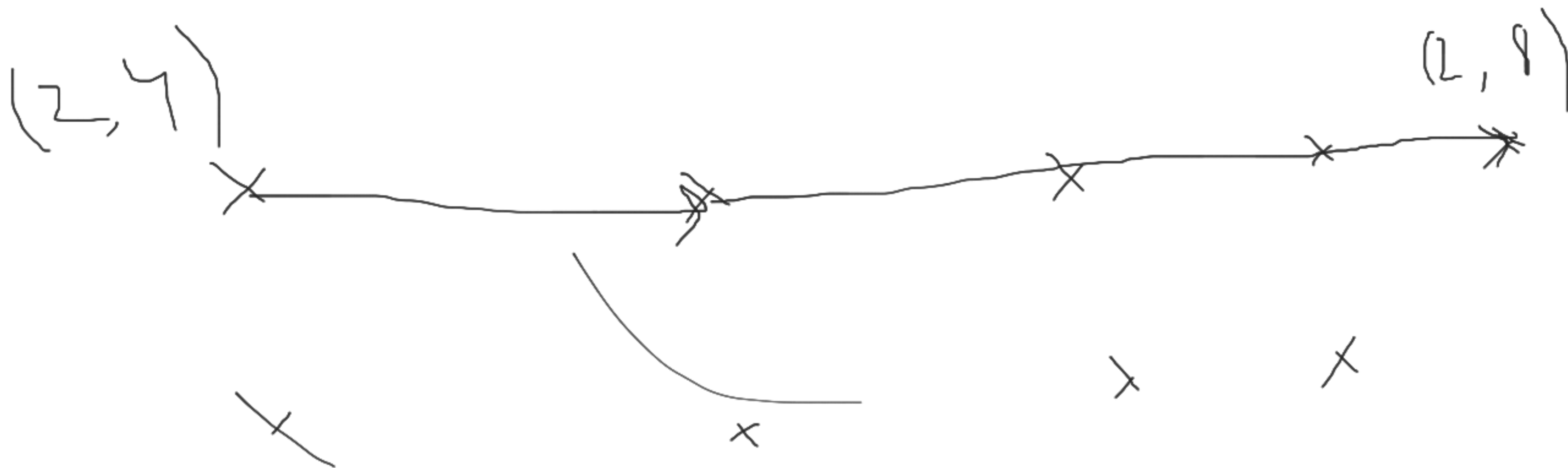


$(0, 1)$



2





bad

Span

$A$

$S \rightarrow \begin{bmatrix} u \\ h \end{bmatrix}_{p \times 1}$  RSA

inner

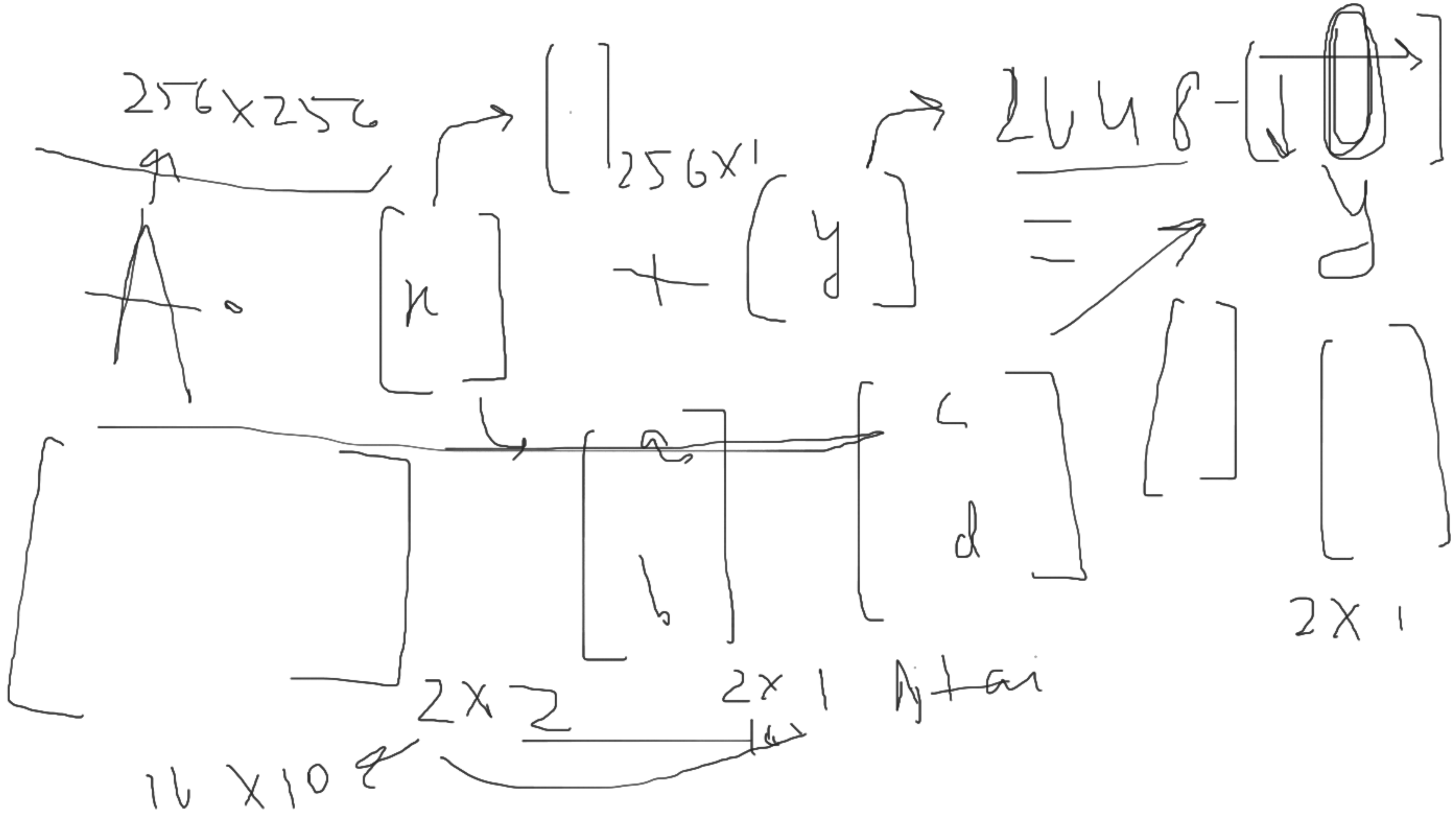
$\begin{matrix} x & x & x \\ x & x & x \\ x & x & x \end{matrix}$

$$\begin{matrix} \uparrow \\ A \end{matrix} x + b = y$$

$\downarrow$

$$\begin{bmatrix} \phantom{0} \end{bmatrix}_{n \times n} \quad \begin{bmatrix} 1 \\ d \end{bmatrix}$$

$x$



SVP

$$\checkmark \quad A_n + \text{bxt} = y$$

↓

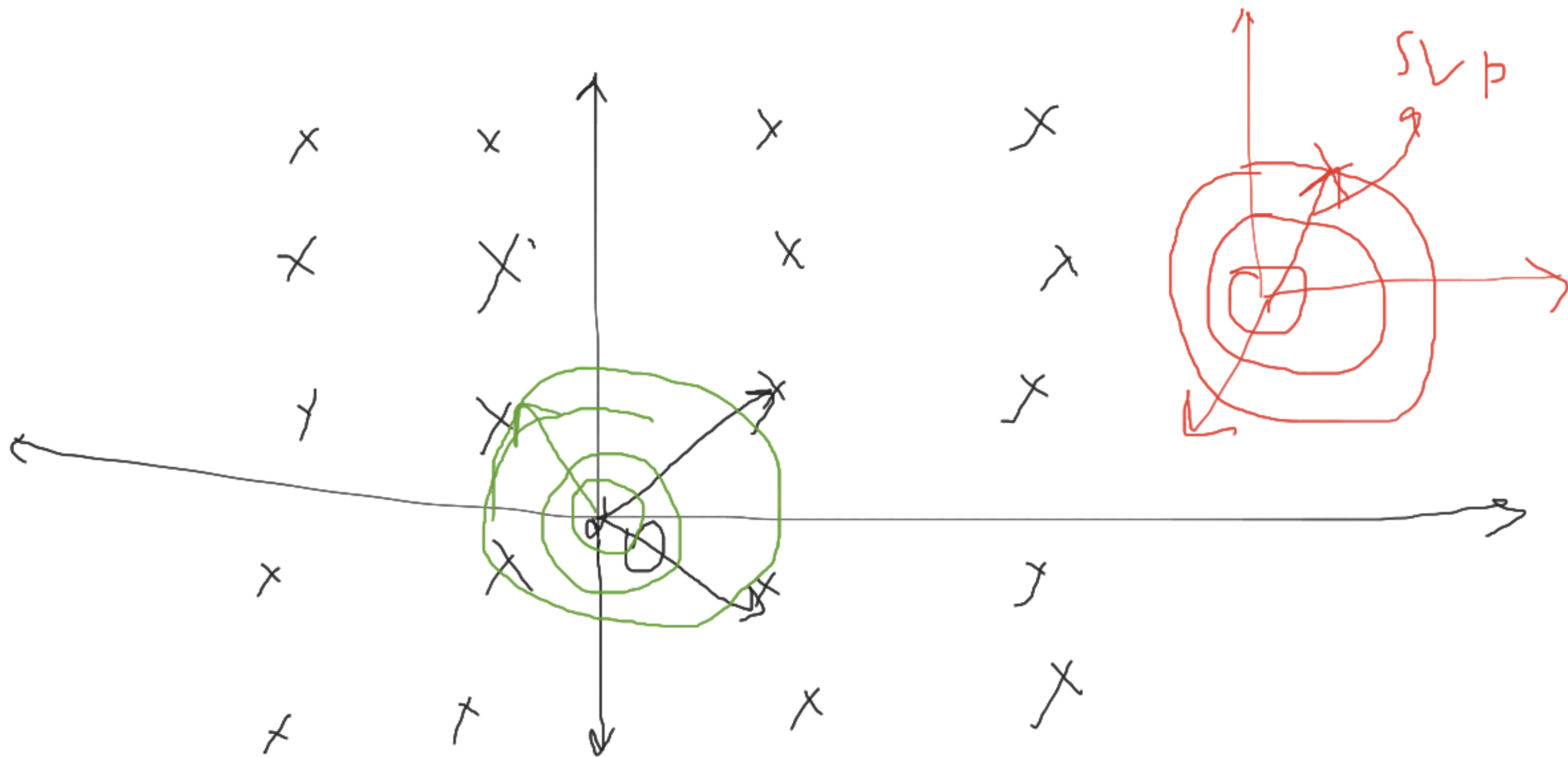
find  $x$

$$[ ] \quad [ ] \quad [ ]$$

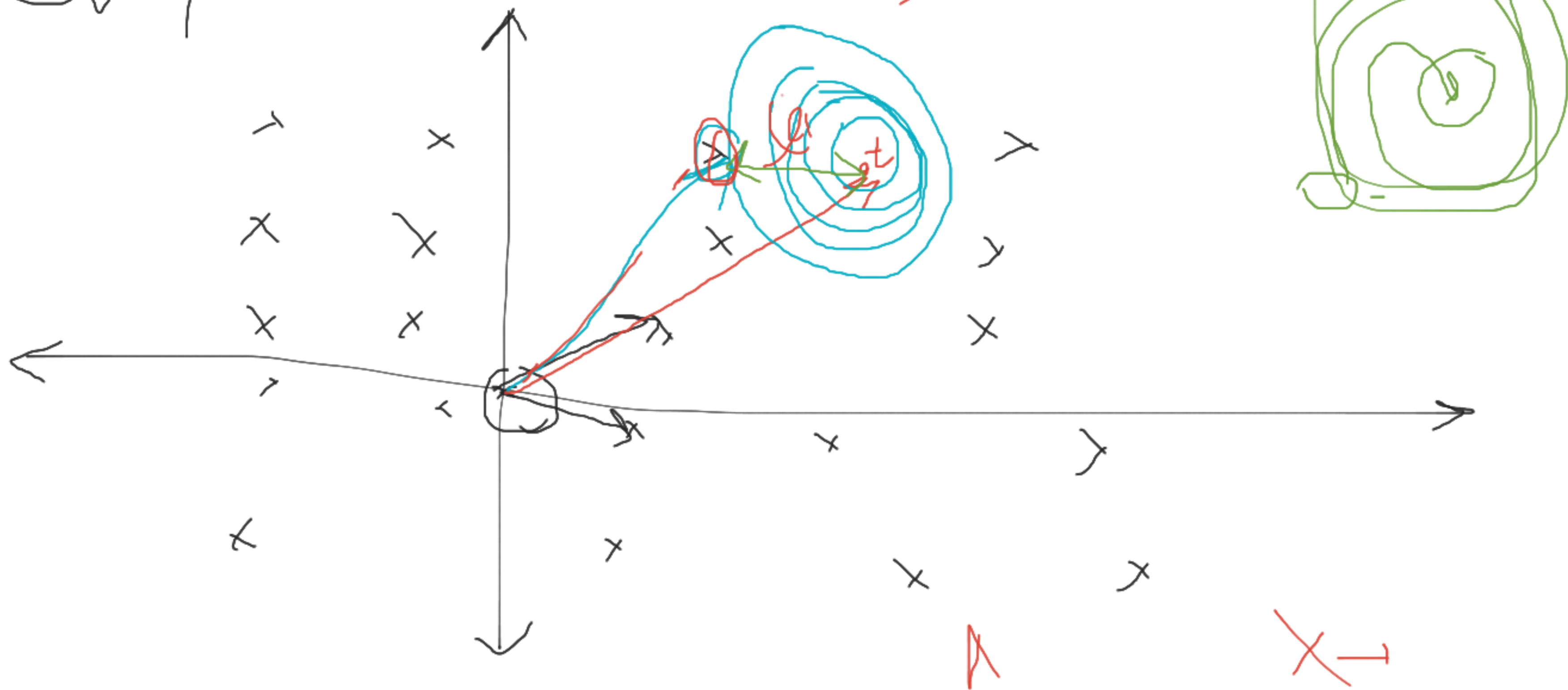
↓

$A_n + b = 0$

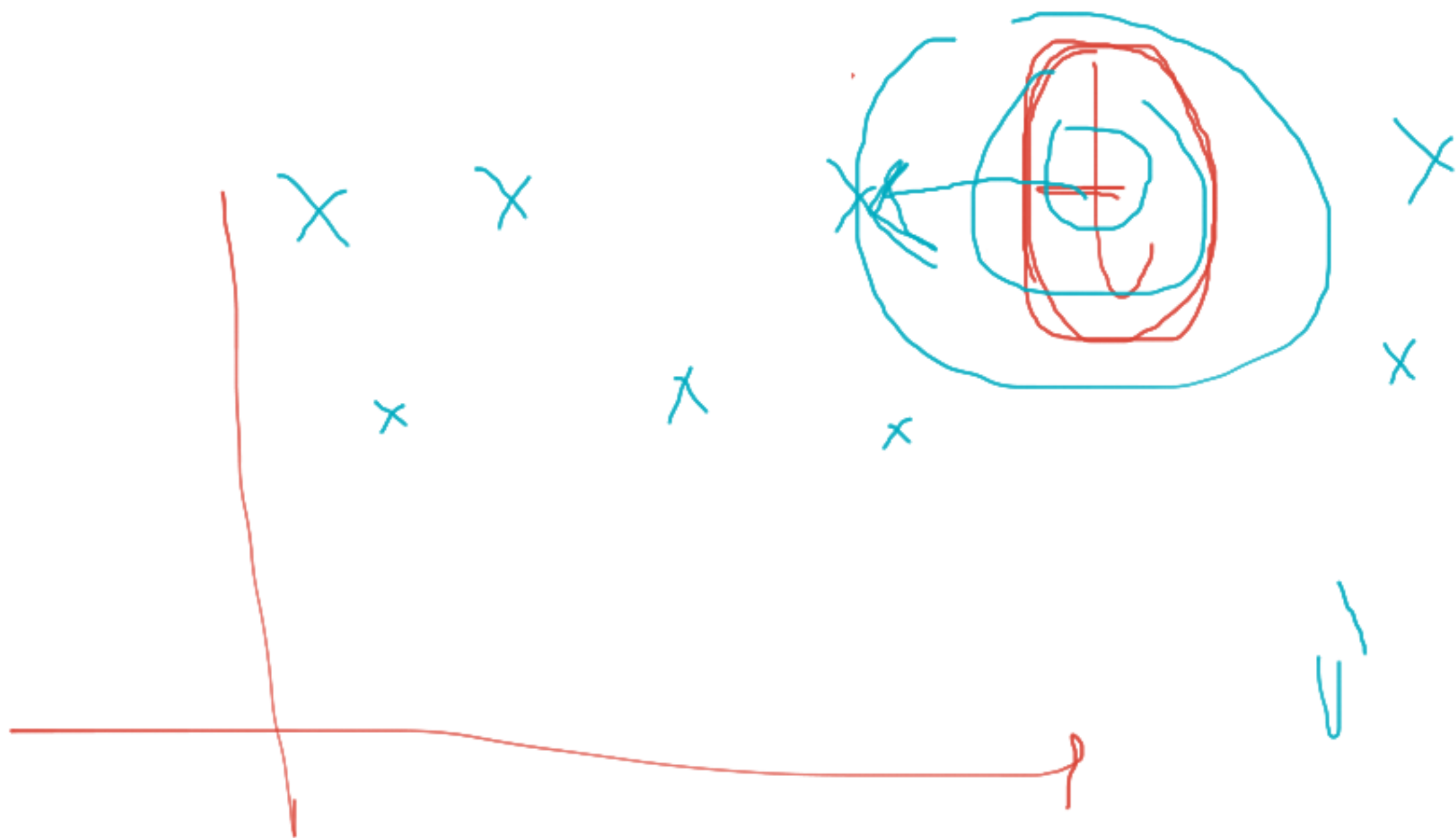
$$\underline{\underline{A_n + b = y}}$$



CVP





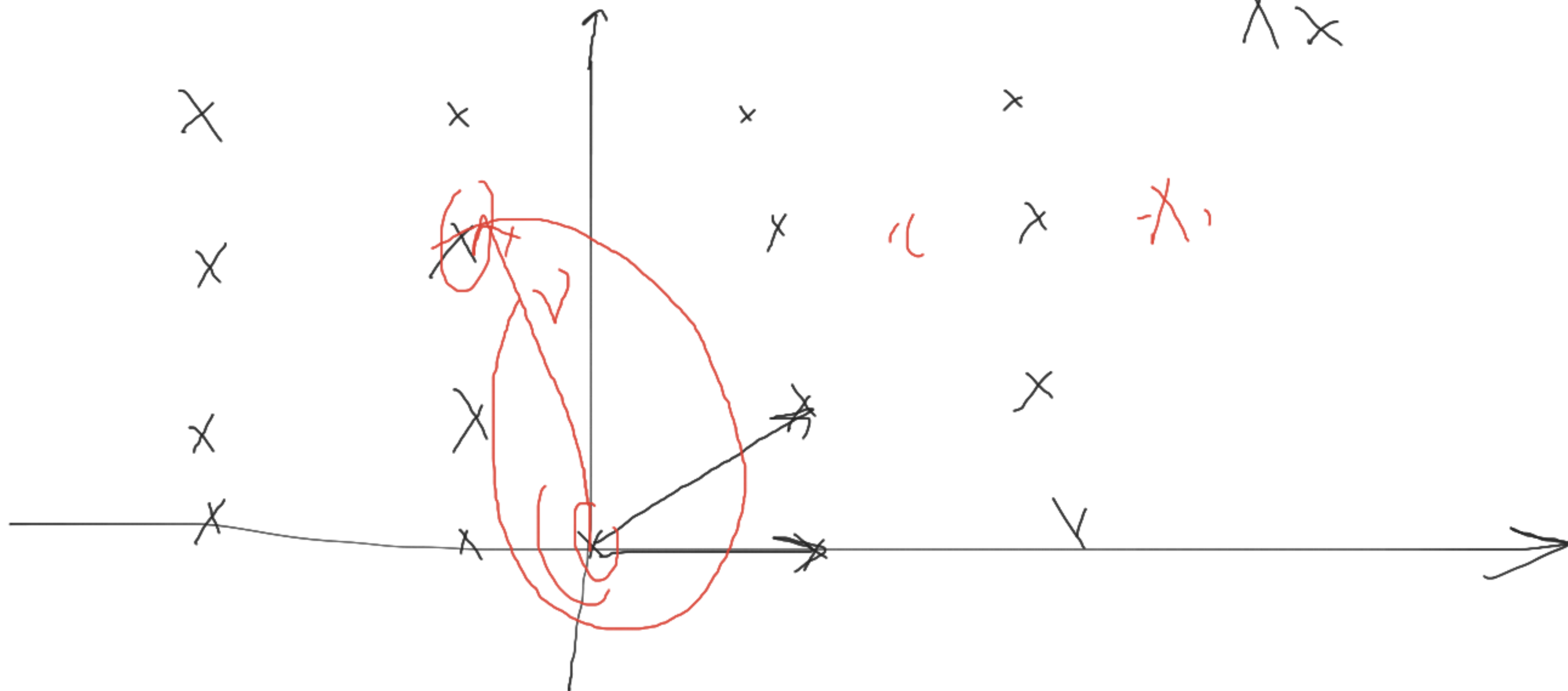


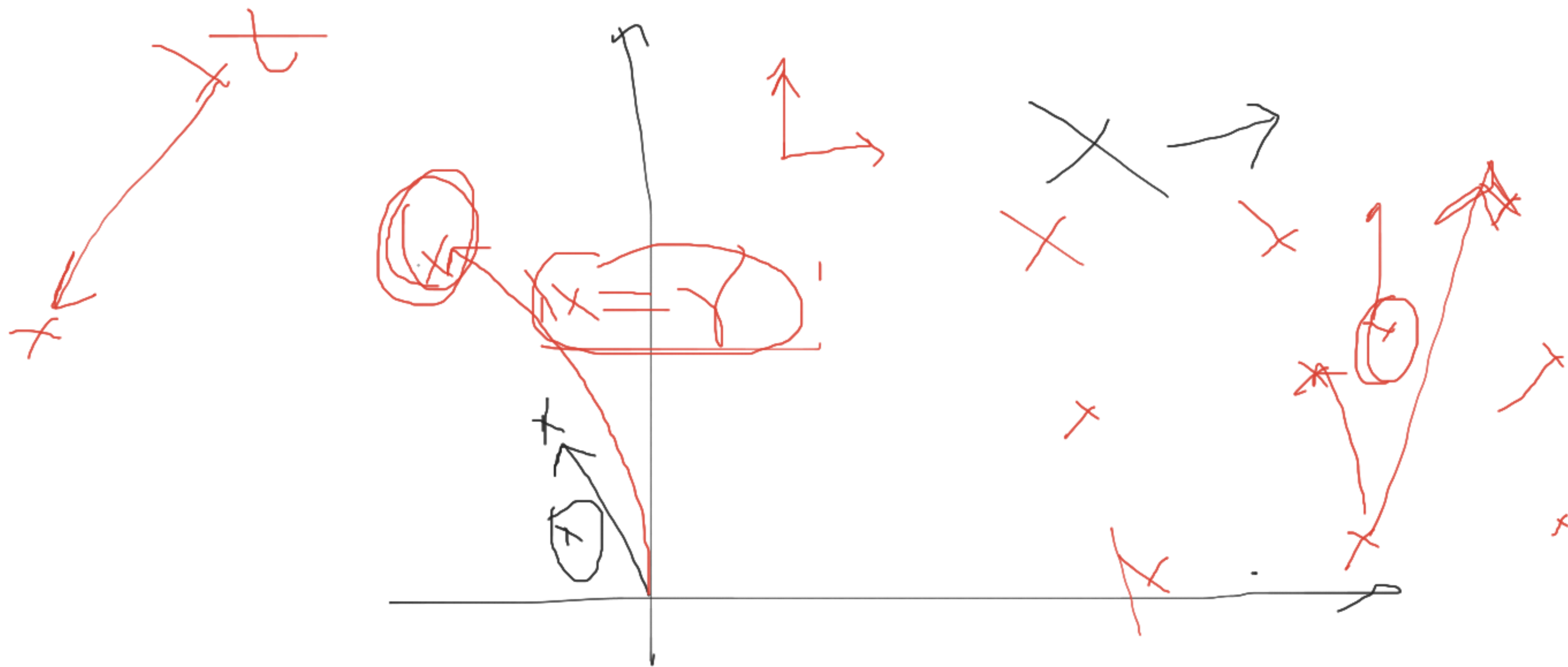
3

V-approx

SVP

$X \rightarrow SVP$





||Y||

[M]

\_\_\_\_\_



C

^

||v||  
\_\_\_\_\_

=



