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``Vectorization of a matrix A":

$$\begin{array}{c} A \\ \left| \begin{array}{cc} 1 & -2 \\ 2 & 0 \end{array} \right| \end{array} \implies \begin{array}{c} a \\ \left| \begin{array}{c} 1 \\ 2 \\ -2 \\ 0 \end{array} \right| \end{array}$$

mxn ==> a size mn

- 1
- 2 = > norm
- 3

$$\begin{array}{l} \| a \|_1 = 5 \quad \| A \| = 5 \\ \| a \|_2 = 3 \end{array}$$