	Matrix operations: useful for short cuts.
1)	Matrix times vector $A_{mxn}$ times $\vec{x} \in \mathbb{R}^n$ : $A\vec{x} \in \mathbb{R}^m$ $\rightarrow$ mutiply components and sum (dot product)
	> mutiply components and sum (dot product)
	for each row of A (length n) and all of x.
	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
	$\vec{x} \in \mathbb{R}^{4}$ [5 4 -1 0] [1 (15 + 8 - 1 + 0) (22)
	$A \stackrel{(-1)}{\wedge} A \stackrel{?}{\times} \epsilon \mathbb{R}^{2}$
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