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## 0.1 Direct or iterative methods?

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1. Every  $x \in \mathbb{R}^n$  has an image  $y \in \mathbb{R}^m$ , but every  $y \in \mathbb{R}^m$  is not in the image of  $A$ .

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Numerical Methods | ScienceDirect

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Numerical analysis - Wikipedia

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Computational science - Wikipedia

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