

Affine Sets and Linear Equations

Why

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Main Result

Prop. 1. $M \subset \mathbb{R}^n$ is affine if and only if there exists $b \in \mathbb{R}^m$ and $B \in \mathbb{R}^{m \times n}$ such that

$$M = \{ x \in \mathbf{R}^n \mid Bx = b \}.$$

¹Future editions will include.

