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Conditioning

1分

Let $A \in \mathbb{R}^{n \times n}$ be a matrix. Suppose that A has a very high condition number, say $\kappa(A) \approx 10^{1}2$.
After we solve $Ax = b$ for x, which of the following is true? (x^* is the exact solution in full precision)

选项*

○ $\|b - Ax\|$ is small

○ $\|x - x^*\|$ is small

○ None of these

○ Both of these

保存回答　　提交最终回答