Homework

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March 14, 2022

Q1   **Prove** $a^2 + b^2 \geq 2ab$

Solution.

$$a^2 + b^2 - 2ab = (a-b)^2 \geq 0\,.$$

More proofs see KKK (2017).   ∎

References

KKK. (2017, June 14). *Why is a² + b² 2ab ?* Retrieved March 14, 2022, from https://cuhkmath.wordpress.com/2017/06/14/why-is-a%c2%b2-b%c2%b2-%e2%89%a5-2ab/