



MathLovers

Problems for 17.11.2025
Solutions to the problems below
will be published on Thursday 20.11.2025

-  **Problem 1.** Decide whether a chess knight can visit every square of a 5×5 chessboard exactly once and return to its starting square. What about a 4×4 chessboard?
-  **Problem 2.** Let $ABCD$ be a trapezoid with bases AB and CD . Its diagonals intersect at point P . Given that $[CPD] = 8$ and $[APD] = 16$, compute the area of the entire trapezoid.

Note: The notation $[ABC]$, i.e., the name of a polygon in square brackets, traditionally denotes its area.

Good luck!

We encourage you to submit your solutions via
<https://mathlovers.eu/submit-solution/>!