



MathLovers

Problems for 11/10/2025
Solutions to the problems below
will be published on Thursday 11/13/2025

- Problem 1.** Find all positive integers n such that the number $n^4 + n^2 + 1$ is prime.
- Problem 2.** A warehouse contains several packages. Each package weighs no more than 1 t, and all of them together weigh 10 t. The company manager wants to transport them by trucks. Each truck can carry up to 3 t of packages in one trip, and each truck can make only one trip. How many trucks must the manager order to be sure that all the packages can be transported, regardless of their individual weights?

Good luck!

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