



$$n^5 - n$$

Problem

Find the largest integer that divides every term of the sequence $1^5 - 1, 2^5 - 2, 3^5 - 3, \dots, n^5 - n, \dots$

Can you generalise your findings?

Relevance

A2 What interesting things can we do with squares and square roots?

NA3 What are highest common factors and why do they matter?