Math Exam — PreIB 3.AB

Áďa Klepáčů

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- 1. Find the greatest common divisor of 2275 and 2695 using the Euclidean algorithm. Write down your calculations.
- 2. Determine whether the following system of congruences has a solution and, if it does, find the smallest solution. Write down your calculations.

 $x \equiv 1 \pmod{4}$

 $x \equiv 3 \pmod{7}$

 $x \equiv 9 \pmod{13}$.