Math Exam — PreIB 3.AB

Áďa Klepáčů

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- 1. Find the *greatest common divisor* of 3087 and 637 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.

 $x \equiv 0 \pmod{13}$

 $x \equiv 3 \pmod{9}$

 $x \equiv 1 \pmod{14}$.