

PS. You should use hide for answers. Collected here (<https://artofproblemsolving.com/community/c5h2760506p24143309>).

10-12 p1. Find all integer solutions of the equation $a^2 - b^2 = 2002$.

p2. Prove that the disks drawn on the sides of a convex quadrilateral as on diameters cover this quadrilateral.

p3. 30 students from one school came to Mathematical Olympiad. In how many different ways is it possible to place them in four rooms?

p4. A 12 liter container is filled with gasoline. How to split it in two equal parts using two empty 5 and 8 liter containers?

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